

**TRANSILWRAP company, inc.**

TRANSPAQUE® II

DESCRIPTION:

TransPaque® II film has 100% block-out opacity for printability on both sides. For outdoor use, it is an ideal replacement for PVC; guaranteed for one year.

CHARACTERISTICS:

- Higher area yield than PVC
- Balanced tensile and elongation
- Flexible, yet tough
- “Green friendly”
- No plasticizers or toxic materials
- 100% recyclable

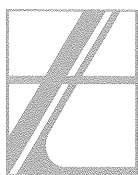
TECHNICAL DATA:

PROPERTIES	UNIT OF MEASURE	TYPICAL VALUE*			TEST METHOD
Thickness	mils	8.0	9.0	13.0	Transilwrap test
Yield	in ² /lb.	3,342	2,970	2,056	Transilwrap test
Tensile Strength at Break MD	psi	3,100	3,100	3,100	ASTM D882
Tensile Strength at Break TD	psi	2,900	2,900	2,900	ASTM D882
Elongation at Break MD	%	>400	>400	>400	ASTM D882
Elongation at Break TD	%	>400	>400	>400	ASTM D882
Heat Shrinkage	%	Nil	Nil	Nil	212°F/10 min.
Corona Treatment	Dynes	46	46	46	ASTM D2578
Opacity (Block Out)	%	>100	>100	>100	ASTM D1003
Gloss Inside, Gardner	% (60°)	26	26	26	Transilwrap test
Gloss Outside, Gardner	% (60°)	32	32	32	Transilwrap test

* Values for reference data only. Contact a Transilwrap film sales representative for actual gauges available. Note: All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the “information”) shall be used only as a guide by Purchaser and not for specification or any other purpose. The information does not constitute a warranty nor guarantee of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own tests. Transilwrap shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the information.

**TRANSILWRAP company, inc.**

1420 Valwood Parkway, Suite 200 • Dallas, TX 75006 • (800) 659-4254 • Fax: (972) 484-3171 • www.transilwrap.com



Cling-Mate™ URA Multi-Polymer Alloy

DESCRIPTION:

Cling-Mate™ URA multi-polymer alloy is a highly printable, rigid Transalloy® multi-polymer alloy sheet that has a high performance (URA) ultra removable adhesive. It has been especially formulated for high tear resistance for point of purchase displays that require clean removability of adhesive for up to 12 months indoors. Adheres to substrates such as metal, polypropylene, stainless steel, painted metal and glass. Its satin top surface is specifically engineered for printing and provides superior performance on and off the press. Cling-Mate™ is available in widths up to 54".

APPLICATION PROCEDURES:

Decals made from Cling-Mate™ URA multi-polymer alloy may be applied by normal wet application methods. The adhesive may develop a slight haze caused by exposure to water. Under normal relative humidity conditions the haze will clear in 24 hours.

CHARACTERISTICS:

- Can be printed using screen and offset processes.
- Can be applied to most clean, non-porous surfaces.
- For decorative decals, product identification tags, and point of purchase displays for appliances.

TECHNICAL DATA:

PROPERTIES		TYPICAL VALUES		ASTM
THICKNESS ±5% or .0015 whichever is greater		.010 Transalloy® .001 URA adhesive .007 liner		T411
OPACITY (-.10 to +.20 variance)		1.5		Macbeth densitometer
YIELD - in²/lb		1,531		T 410
SPECIFIC GRAVITY - g/cm³		1.035		
TENSILE STRENGTH - psi ±10%	MD	3,000		D 882
	TD	2,600		
ELONGATION - %	MD	260		D 882
	TD	200		
TEAR RESISTANCE - lbs	MD	Initiated 0.5	Uninitiated 3.3	D 1938
	TD	0.8	3.6	D 1004
WETTING TENSION - dynes		46-50		T 698
STIFFNESS - TSU	MD	10.5		
	TD	8.0		
MINIMUM APPLICATION TEMPERATURE - °F		+40°		
ADHESIVE SERVICE TEMPERATURE RANGE - °F		-40° to 200°		
ADHESION		PSTC-1 with 24 hour dwell @ room temperature		

Note: The stated values are typical data and are not specification of guarantee. Transilwrap suggests that purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transilwrap to vinyl or Company, Inc.





ClingZ®

Molecular Enhanced Film

Description:

ClingZ® molecular enhanced film is an electrically charged fully printable film. It is manufactured using a proprietary process that embeds an electrical charge into the film. ClingZ® will adhere to almost any clean surface yet can be moved and re-applied as needed. Since ClingZ® is not vinyl and does not use any volatile chemicals. It is environmentally friendly and child safe. ClingZ® is available in .002 white and clear in sizes 19+ x 25+, 23+ x 35+ and 28+ x 40+. Custom sheets made to order with minimum.

Characteristics:

- Adheres to surfaces such as glass, drywall, metal, brick, wood, stucco and marble
- Both printed and unprinted sides are self-adhering
- Repositionable for any indoor application
- Recommended for offset printing, can be screen and flexo printed with proper in selection and coverage. Digital and flexo products under development.
- Can withstand sunlight and cold temperatures while maintaining its self-adhering charge

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DIGIKote[®] Display Lustre Laminating Film

DESCRIPTION:

DIGIKote[®] Display Lustre is a low melt, thermal activated, textured surface laminating film that is specially designed for laminating pop-up display panels and other trade show graphics. Display Lustre has a scratch resistant, non-reflective surface for graphic enhancement. It allows brilliant colors to shine through and has the ability to withstand the rugged environments often required by trade show graphics and point of purchase displays.

CHARACTERISTICS:

- Low-melt-point adhesive.
- Minimizes reflectivity of bright light surroundings.
- Scuff and scratch resistance.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

Slit Widths Available: 38", 51", 62", 76"

Length Available: 250'

TECHNICAL DATA:

PROPERTIES				TEST METHOD
THICKNESS + 10%		.005	.006	
SURFACE TENSION - dyne - adhesive side		48 to 52		
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.380		D 1894
TENSILE STRENGTH - psi + 10%	MD	5,600	4,650	D 882
	TD	7,140	5,900	
ELONGATION - %	MD	105	105	D 882
	TD	110	110	
YIELD - in./lb.		5,558	4,671	
LAMINATING TEMPERATURE RANGE – °F – Internal		185° to 195°		
BOND STRENGTH - p/i - laminated to itself		15	17	

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Revision Date: 08/24/2010



TRANSILWRAP COMPANY, INC.

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DIGIKote® Display White Opaque Laminating Film

DESCRIPTION:

DIGIKote® Display White Opaque is a rigid, low melt, thermally activated, white opaque laminating film that has been specially produced for pop-up and display applications that require no back light influence for large format graphics.

CHARACTERISTICS:

- Low-melt-point adhesive.
- Offers 100% dead white opacity.
- Gives wide format printers the option to produce two-sided images without light transference.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

Slit Widths Available: 3, 5 & 10 mil – 38", 43", 51", 55", 62"

Lengths Available: 3 mil – 38" thru 62" – 250' or 500'

5 & 10 mil – 38" thru 55" – 250'

5 mil – 62" – 250'

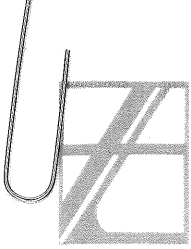
10 mil – 62" – 200'

TECHNICAL DATA:

PROPERTIES		UNIT					TEST METHOD
THICKNESS +/- 10%		inches	.003	.005	.010	.015	D 2103
SURFACE TENSION - dyne - adhesive side		dynes/cm	48 to 52				D 2578
COEFFICIENT OF FRICTION OF BASE FILM SIDE		kinetic	0.225				D 1894
TENSILE STRENGTH +/- 10%	MD	psi	9,300	8,400	7,600	9,800	D 882
	TD	psi	10,500	11,200	10,900	14,450	
ELONGATION	MD	%	110	130	175	160	D 882
	TD	%	100	120	110	90	
YIELD		ln ² /lb	8,500	4,850	2,440	1,580	D 4321
LAMINATING TEMPERATURE RANGE – Internal		°F	185° to 195°				
BOND STRENGTH – laminated to itself		lb/in	9	15	25	25	

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Revision Date: 09/22/2011



TRANSILWRAP COMPANY, INC.

Manufacturers and Precision Converters of Plastic Sheet and Film Since 1931

Product Data Sheet

Trans-Cling™ 2.3mil Polypropylene with Dream Adhesive

Description:

A 2.3mil white polypropylene coated with our pressure sensitive ultra-removable ultra-repositionable dream adhesive. This product can be used on a variety of smooth flat substrates including glass, wood and painted drywall.

Characteristics:

- Ideal for most interior smooth flat surfaces.
- Can be easily removed and reapplied.
- Clean removability and repositionability for up to 1 year

Applications:

- Label applications that require easy removal or reusability
- Excellent wall graphics product
- Window decals for stores or cars

Technical Data

Properties	
Thickness	2.3 mil
Liner	92# two side coated polyethylene liner
Adhesive	Ultra removable ultra repositionable Dream adhesive
Printing	Material suitable for Screen Process, conventional and UV offset lithography and flexography
Dimensional Stability	Good
Minimum Application Temperature	+50° F
Adhesion	24 hours 6-12oz 24 180° peel value on stainless steel
Shelf Life	1 Year when stored at 74° F and 50% relative humidity

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Trans-Kote[®] Dry Erase PET/MR Laminating Film

DESCRIPTION:

Trans-Kote[®] Dry Erase PET/MR is a clear polyester-base thermal laminating film. This product has the ability to receive writing when using dry erase markers and erases without ghosting.

CHARACTERISTICS:

- Low-melt-point adhesive.
- Dry Erase marking ability without ghosting.
- Can be die cut.

TECHNICAL DATA:

PROPERTIES		1.7 mil Dry Erase	ASTM
THICKNESS -10%		.0017"	D 6988
SURFACE TENSION - dyne - adhesive side		44 to 52	D 2578
COEFFICIENT OF FRICTION OF BASE FILM SIDE*		0.40 to 0.50	D 1894*
TENSILE STRENGTH - psi -10%	MD	11,200	D 882
	TD	10,500	
ELONGATION - %	MD	130	D 882
	TD	140	
YIELD - in ₂ /lb		15,100	D 4321
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°	
BOND STRENGTH - p/i - laminated to itself		4 - 7	

* Test performed Dry Erase PET when sliding against standard PET. Standard PET is recommended as a backer when needed.

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Revision Date: 04/08/2011



TRANSILWRAP COMPANY, INC.



Laminating Film Heavy Gauge

DESCRIPTION:

Xtreme Bond Laminating Film is a premium grade polyester or nylon base film with a proprietary adhesive formulated for adhesion to fuser oil base inks and other difficult to adhere to digital toners. Xtreme Bond laminate provides greater range of uses and applications. Its unique formulation allows immediate lamination to "wet" inks without delay and subsequent finishing operations.



CHARACTERISTICS:

- Available in gloss and matte finishes.
- Superior abrasion resistance.
- High clarity laminating film (polyester and nylon).
- Water, oil, acid, and alkali resistant.
- Can be die-cut.
- Enhances overall color and appearance of graphics.
- Excellent alternative to PSA film.
- Easy to apply.

APPLICATIONS:

- Digital prints, such as Xerox Docutech and Docucolor, Nexpress and Xeikon Systems.

TECHNICAL DATA:

PROPERTIES		50/250 PET	50/250 PET	50/250 PET	5 mil. PET	2/8 PET	4/6 PET	ASTM
FINISH		GLOSS	SATIN	MATTE	GLOSS	GLOSS	GLOSS	
THICKNESS $\pm 10\%$		.003	.003	.003	.005	.010	.010	
SURFACE TENSION - dyne - adhesive side		52-56						
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55						D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	4,139	4,008	4,008	6,000	5,339	9,300	D 882
	TD	5,176	5,522	5,522	6,400	6,554	10,500	
ELONGATION - %	MD	84	71	71	120	117	135	D 882
	TD	48	56	56	77	99	129	
YIELD - in ² /lb.		9,071	9,071	9,071	5,495	2,725	2,190	
LAMINATING TEMPERATURE RANGE - °F - INTERNAL		240 to 260						
BOND STRENGTH - p/I - laminated to itself		6-8	6-8	6-8	15-18	15-18	15-18	

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Revision Date: 04/13/2010



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TRANSILWRAP COMPANY, INC.



Laminating Film Heavy Gauge

DESCRIPTION:

Xtreme Bond Laminating Film is a premium grade polyester or nylon base film with a proprietary adhesive formulated for adhesion to fuser oil base inks and other difficult to adhere to digital toners. Xtreme Bond laminate provides greater range of uses and applications. Its unique formulation allows immediate lamination to "wet" inks without delay and subsequent finishing operations.



CHARACTERISTICS:

- Available in gloss and matte finishes.
- Superior abrasion resistance.
- High clarity laminating film (polyester and nylon).
- Water, oil, acid, and alkali resistant.
- Can be die-cut.
- Enhances overall color and appearance of graphics.
- Excellent alternative to PSA film.
- Easy to apply.

APPLICATIONS:

- Digital prints, such as Xerox Docutech and Docucolor, Nexpress and Xeikon Systems.

TECHNICAL DATA:

PROPERTIES		50/250 PET	50/250 PET	50/250 PET	5 mil. PET	2/8 PET	4/6 PET	ASTM
FINISH		GLOSS	SATIN	MATTE	GLOSS	GLOSS	GLOSS	
THICKNESS $\pm 10\%$		.003	.003	.003	.005	.010	.010	
SURFACE TENSION - dyne - adhesive side		52-56						
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55						D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	4,139	4,008	4,008	6,000	5,339	9,300	D 882
	TD	5,176	5,522	5,522	6,400	6,554	10,500	
ELONGATION - %	MD	84	71	71	120	117	135	D 882
	TD	48	56	56	77	99	129	
YIELD - in ² /lb.		9,071	9,071	9,071	5,495	2,725	2,190	
LAMINATING TEMPERATURE RANGE - °F - INTERNAL		240 to 260						
BOND STRENGTH - p/I - laminated to itself		6-8	6-8	6-8	15-18	15-18	15-18	

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Revision Date: 04/13/2010





TRANSILWRAP COMPANY, INC.



Laminating Film Heavy Gauge

DESCRIPTION:

Xtreme Bond Laminating Film is a premium grade polyester or nylon base film with a proprietary adhesive formulated for adhesion to fuser oil base inks and other difficult to adhere to digital toners. Xtreme Bond laminate provides greater range of uses and applications. Its unique formulation allows immediate lamination to "wet" inks without delay and subsequent finishing operations.



CHARACTERISTICS:

- Available in gloss and matte finishes.
- Superior abrasion resistance.
- High clarity laminating film (polyester and nylon).
- Water, oil, acid, and alkali resistant.
- Can be die-cut.
- Enhances overall color and appearance of graphics.
- Excellent alternative to PSA film.
- Easy to apply.

APPLICATIONS:

- Digital prints, such as Xerox Docutech and Docucolor, Nexpress and Xeikon Systems.

TECHNICAL DATA:

PROPERTIES		50/250 PET	50/250 PET	50/250 PET	5 mil. PET	2/8 PET	4/6 PET	ASTM
FINISH		GLOSS	SATIN	MATTE	GLOSS	GLOSS	GLOSS	
THICKNESS $\pm 10\%$.003	.003	.003	.005	.010	.010	
SURFACE TENSION - dyne - adhesive side		52-56						
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55						D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	4,139	4,008	4,008	6,000	5,339	9,300	D 882
	TD	5,176	5,522	5,522	6,400	6,554	10,500	
ELONGATION - %	MD	84	71	71	120	117	135	D 882
	TD	48	56	56	77	99	129	
YIELD - in ² /lb.		9,071	9,071	9,071	5,495	2,725	2,190	
LAMINATING TEMPERATURE RANGE - °F - INTERNAL		240 to 260						
BOND STRENGTH - p/I - laminated to itself		6-8	6-8	6-8	15-18	15-18	15-18	

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Revision Date: 04/13/2010



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TRANSILWRAP COMPANY, INC.



Laminating Film Thin Gauge

DESCRIPTION:

Xtreme Bond Laminating Film is a premium grade polyester or nylon base film with a proprietary adhesive formulated for adhesion to fuser oil base inks and other difficult to adhere to digital toners. Xtreme Bond laminate provides greater range of uses and applications. Its unique formulation allows immediate lamination to "wet" inks without delay and subsequent finishing operations.



CHARACTERISTICS:

- Available in gloss and matte finishes.
- Superior abrasion resistance.
- High clarity laminating film (polyester and nylon).
- Water, oil, acid, and alkali resistant.
- Can be die-cut.
- Enhances overall color and appearance of graphics.
- Excellent alternative to PSA film.
- Easy to apply.

APPLICATIONS:

- Digital prints, such as Xerox Docutech and Docucolor, Nexpress and Xeikon Systems.

TECHNICAL DATA:

PROPERTIES		1.2 Nylon*	1.2 PET	1.3 Nylon*	1.7 Nylon*	1.7 PET	1.7 PET	ASTM
FINISH		GLOSS	GLOSS	MATTE	GLOSS	GLOSS	MATTE	
THICKNESS $\pm 10\%$		.0012	.0012	.0013	.0017	.0017	.0017	
SURFACE TENSION - dyne - adhesive side		52-56						
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 – 0.55						D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	6,600	26,307	6,000	8,400	30,400	5,964	D 882
	TD	5,302	30,460	5,700	7,800	34,500	8,068	
ELONGATION - %	MD	35	140	35	87	160	40	D 882
	TD	17	105	43	74	120	27	
YIELD - in ² /lb.		22,512	19,510	19,924	15,891	15,068	14,935	
LAMINATING TEMPERATURE RANGE - °F - INTERNAL		240 to 260						
BOND STRENGTH - p/I – laminated to itself		3-5	3-5	3-5	4-6	4-6	4-6	

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Revision Date: 04/13/2010

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TRANSILWRAP COMPANY, INC.



Laminating Film Thin Gauge

DESCRIPTION:

Xtreme Bond Laminating Film is a premium grade polyester or nylon base film with a proprietary adhesive formulated for adhesion to fuser oil base inks and other difficult to adhere to digital toners. Xtreme Bond laminate provides greater range of uses and applications. Its unique formulation allows immediate lamination to "wet" inks without delay and subsequent finishing operations.



CHARACTERISTICS:

- Available in gloss and matte finishes.
- Superior abrasion resistance.
- High clarity laminating film (polyester and nylon).
- Water, oil, acid, and alkali resistant.
- Can be die-cut.
- Enhances overall color and appearance of graphics.
- Excellent alternative to PSA film.
- Easy to apply.

APPLICATIONS:

- Digital prints, such as Xerox Docutech and Docucolor, Nexpress and Xeikon Systems.

TECHNICAL DATA:

PROPERTIES		1.2 Nylon*	1.2 PET	1.3 Nylon*	1.7 Nylon*	1.7 PET	1.7 PET	ASTM
FINISH		GLOSS	GLOSS	MATTE	GLOSS	GLOSS	MATTE	
THICKNESS $\pm 10\%$.0012	.0012	.0013	.0017	.0017	.0017	
SURFACE TENSION - dyne - adhesive side		52-56						
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 – 0.55						D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	6,600	26,307	6,000	8,400	30,400	5,964	D 882
	TD	5,302	30,460	5,700	7,800	34,500	8,068	
ELONGATION - %	MD	35	140	35	87	160	40	D 882
	TD	17	105	43	74	120	27	
YIELD - in ² /lb.		22,512	19,510	19,924	15,891	15,068	14,935	
LAMINATING TEMPERATURE RANGE - °F - INTERNAL		240 to 260						
BOND STRENGTH - p/I – laminated to itself		3-5	3-5	3-5	4-6	4-6	4-6	

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Revision Date: 04/13/2010

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DIGIKote® Digital Laminating Films

DESCRIPTION:

DIGIKote® Digital Laminating Films are specially engineered with UV inhibitors and LIGHTFast™ technology to reduce graphic fade and protect against moisture. DIGIKote® laminating films feature adhesives that enhance clarity by sealing at 185°F. The films' low sealing temperature helps preserve inks in digitally printed graphics, which can deteriorate at high temperatures.

CHARACTERISTICS:

- Low-melt-point adhesive.
- Engineered for large format output.
- Increases rigidity and strength of media.
- Preserves graphic images over time and protects against moisture, handling and abrasion.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

Does Not Apply to All Products / Call Customer Service for Details:

Slit Widths Available: 25", 38", 43", 51", 55", 62", 76"

Lengths Available: 250', 500' (150' & 200' for heavier gauge materials).

TECHNICAL DATA:

PROPERTIES		1.	.5 .5	1					ASTM
THICKNESS ±10%		GLOSS	SATIN	GLOSS	SATIN GLOSS	GLOSS	GLOSS		
		.0017"	.003"		.005"		.010"		
SURFACE TENSION - dyne - adhesive side		52 to 54	44 to 52						
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55							D 1894
TENSILE STRENGTH - psi ±10%	MD	8,900	4,290	11,400	11,000	14,900	9,265	14,250	D 882
	TD	9,600	5,050	11,500	12,600	15,100	10,640	13,200	
ELONGATION - %	MD	150	58	180	145	170	135	66	D 882
	TD	130	63	140	112	130	129	123	
YIELD - in2/lb		11,780	9,230	8,571	5,000	4,550	2,500	2,190	
LAMINATING TEMPERATURE RANGE-°F - internal		185° to 195°							
BOND STRENGTH - p/i -laminated to itself		6	8		14	15	38	19	

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Revised Date: 05/12/2009



DIGIKote[®] Hard Coat Lustre Laminating Film

DESCRIPTION:

DIGIKote[®] Hard Coat Lustre is a low melt, thermally activated laminate which is top coated with a UV cured hard coat formula designed to offer maximum scuff and scratch resistance. The film offers excellent glare reduction under bright light conditions and is ideal for trade show graphics and point of purchase displays that require extra durability.

CHARACTERISTICS:

- Low-melt-point adhesive.
- Scuff and scratch resistance
- Non-reflective surface.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

Slit Widths Available: 5 mil – 38", 43", 51", 55" / 10 mil – 25", 38", 51", 55"

Length Available: 5 and 10 mil – 250'

TECHNICAL DATA:

PROPERTIES				ASTM
THICKNESS + 10%		.005	.010	
SURFACE TENSION - dyne - adhesive side		52 to 54		
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.4 to 0.5		D 1894
TENSILE STRENGTH - psi + 10%	MD	16,200	18,900	D 882
	TD	18,600	21,700	
ELONGATION - %	MD	115		D 882
	TD	80		
YIELD - in./lb.		4,570	2,200	
LAMINATING TEMPERATURE RANGE – °F – Internal		185° to 195°		
BOND STRENGTH - p/i - laminated to itself		12	15	
Gloss (after lamination) 60° – gloss units +/- 10		20	20	D 2457

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Revised Date: 01/28/2010



DIGIKote[®] Hard Coat Lustre Laminating Film

DESCRIPTION:

DIGIKote[®] Hard Coat Lustre is a low melt, thermally activated laminate which is top coated with a UV cured hard coat formula designed to offer maximum scuff and scratch resistance. The film offers excellent glare reduction under bright light conditions and is ideal for trade show graphics and point of purchase displays that require extra durability.

CHARACTERISTICS:

- Low-melt-point adhesive.
- Scuff and scratch resistance
- Non-reflective surface.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

Slit Widths Available: 5 mil – 38", 43", 51", 55" / 10 mil – 25", 38", 51", 55"

Length Available: 5 and 10 mil – 250'

TECHNICAL DATA:

PROPERTIES				ASTM
THICKNESS + 10%		.005	.010	
SURFACE TENSION - dyne - adhesive side		52 to 54		
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.4 to 0.5		D 1894
TENSILE STRENGTH - psi + 10%	MD	16,200	18,900	D 882
	TD	18,600	21,700	
ELONGATION - %	MD	115		D 882
	TD	80		
YIELD - in./lb.		4,570	2,200	
LAMINATING TEMPERATURE RANGE – °F – Internal		185° to 195°		
BOND STRENGTH - p/i - laminated to itself		12	15	
Gloss (after lamination) 60° – gloss units +/- 10		20	20	D 2457

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Revised Date: 01/28/2010



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TRANSILWRAP of CANADA, LTD.

High Impact Polystyrene (HIPS)

This material is an economical, rigid substrate with high impact strength. It has surfaces which have exceptional ink receptivity which enables it to be printed by flexography, lithography, screen print and thermal transfer. This material is available from a natural, which is hazy, to super opaque white which allows almost no transmission of light through the sheet. The surface finish can be matte/matte or matte/gloss. Other opaque colours and FDA grades are available to order. HIPS is ideal for product labels, tags, displays and signs (including rear illuminated), etc.

Technical Data

Property	Test Method	Units	Typical Values	
Thickness	T411	ins.	.010 - .050	
Thickness Tolerance		%	5	
Yield	T410	sq. ins./lb	2,750 (0.010")	
Specific Gravity	D1505	g/cc	1.03	
Tensile Strength	D882	psi	MD	2,700 (0.010")
		psi	TD	3,500 (0.010")
Elongation	D882	%	MD	30 (0.010")
		%	TD	50 (0.010")
Tear Resistance- Uninitiated	D1938	lb.	MD	0.15
		lb.	TD	0.39
Tear Resistance- Initiated	D1004	lb.	MD	2.5
		lb.	TD	4.8
Stiffness		Taber units	MD	16 (0.010")
		Taber units	TD	12 (0.010")

Note: The above stated values are typical data and are not specification of guarantee. Transilwrap suggests that the purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transilwrap of Canada, Ltd.



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transilwrap of canada, ltd

PRODUCT DATA

Laser Tuff

Laser Printable, Coated, White Polyester

Laser Tuff is a high quality, laser printable, white polyester. It has a bright white, toner receptive coating on both sides designed for color laser and Xeikon digital printing. It can also be printed flexo, offset, screen and thermal transfer with excellent results.

Laser Tuff is dimensionally stable and is ideal for end uses where high temperatures (up to 400°F) are expected. It has good lay flat characteristics, is semi-rigid providing the desirable I.D. card type “snap” when flexed.

Laser Tuff is ideal for producing coloured documents that are to be handled frequently or exposed to the elements such as manuals, menus, horticultural labels etc.

Laser Tuff is stocked in 0.005” and 0.007”. 0.010” is available to special orders.

Typical Technical Data of 0.005”

Property	Test Method	Units	Typical Value
Nominal Gauge		Mils	5.0
C.O.F. Static	ASTM D 1894		0.760
Kinetic			0.614
Tensile Strength	ASTM D 882	psi MD psi TD	25,000 25,000
Elongation	ASTM D 882	% MD % TD	118 175
Gloss	ASTM D 523	%	3.8
Light Transmission	ASTM D 1003	%	19.7
Heat Shrinkage	ASTM D 1204	% MD % TD	1.5 0.5

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DIGIKote[®] Matte Laminating Film

DESCRIPTION:

DIGIKote[®] Matte Laminating Film is a 3-mil low melt, thermally activated laminate especially designed for applications that require enhanced glare reduction. It is ideal for trade show graphics and point of purchase displays.

CHARACTERISTICS:

- Low-melt-point adhesive.
- Provides more glare reduction than standard satin films.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

Slit Widths Available: 25", 38", 43", 51", 55" 62"

Length Available: 500'

TECHNICAL DATA:

PROPERTIES		TEST METHOD
THICKNESS + 10%		.003
SURFACE TENSION - dyne - adhesive side		52 to 54
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55
TENSILE STRENGTH - psi + 10%	MD	5,300
	TD	6,000
ELONGATION - %	MD	110
	TD	90
YIELD - in./lb.		9,110
LAMINATING TEMPERATURE RANGE – °F – Internal		185° to 195°
BOND STRENGTH - p/i - laminated to itself		10

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Revision Date: 05/12/2009



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Holographic PET Laminating Film

DESCRIPTION:

Transilwrap's Metalized Holographic Polyester Films are specially engineered with a copolymer adhesive. This adhesive technology provides superior adhesion to heavily loaded inks and hard-to-stick-to plastics. All Holographic Polyester Films feature brilliant, multi-dimensional patterns perfect for decorative applications.

CHARACTERISTICS:

- Holographic patterns create eye-catching visual effects
- Acrylic coated for printability and gluing
- Excellent adhesion to core materials and heavily loaded inks
- Can be die cut and vacuum formed

APPLICATIONS:

- Loyalty/Gift Cards
- POP Displays
- Promotional Materials
- Specialty Packaging

Available Master Roll Width: 27.5"
Custom Master Roll Widths Available
Custom Patterns Available
Standard Roll Length: 3000 ft

TECHNICAL DATA:

PROPERTIES		2.0	ASTM
		GLOSS	
THICKNESS ±10%		.002"	
SURFACE TENSION - dyne - adhesive side		44 to 52	
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.35 to 0.55	D 1894
TENSILE STRENGTH - psi ±10%	MD	13,800	D 882
	TD	16,500	
ELONGATION - %	MD	100	D 882
	TD	90	
YIELD - in ₂ /lb		11,650	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°	
BOND STRENGTH - p/i - laminated to itself		4 to 7	

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Revision Date 12/9/2010



Holographic PET Laminating Film

DESCRIPTION:

Transilwrap's Metalized Holographic Polyester Films are specially engineered with a copolymer adhesive. This adhesive technology provides superior adhesion to heavily loaded inks and hard-to-stick-to plastics. All Holographic Polyester Films feature brilliant, multi-dimensional patterns perfect for decorative applications.

CHARACTERISTICS:

- Holographic patterns create eye-catching visual effects
- Acrylic coated for printability and gluing
- Excellent adhesion to core materials and heavily loaded inks
- Can be die cut and vacuum formed

APPLICATIONS:

- Loyalty/Gift Cards
- POP Displays
- Promotional Materials
- Specialty Packaging

Available Master Roll Width: 27.5"
Custom Master Roll Widths Available
Custom Patterns Available
Standard Roll Length: 3000 ft

TECHNICAL DATA:

PROPERTIES		2.0	ASTM
		GLOSS	
THICKNESS ±10%		.002"	
SURFACE TENSION - dyne - adhesive side		44 to 52	
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.35 to 0.55	D 1894
TENSILE STRENGTH - psi ±10%	MD	13,800	D 882
	TD	16,500	
ELONGATION - %	MD	100	D 882
	TD	90	
YIELD - in ₂ /lb		11,650	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°	
BOND STRENGTH - p/i - laminated to itself		4 to 7	

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Revision Date 12/9/2010



TRANSILWRAP of CANADA, LTD.

MXM Synthetic Paper

MXM Synthetic Paper is a clay (calcium carbonate) modified calendered Polypropylene with the same feel and texture as white offset paper, but with the tear, water and chemical resistance of plastic. **MXM** is dimensionally stable and can stand temperatures of -60°F to 165°F. All of these properties help to make **MXM** a very durable sheet that can be printed using any of the following printing methods: litho, flexo, gravure, letterpress, screen and thermal transfer. Laser printers using cold or chemical fusion, and dot matrix can also be used.

MXM, with its properties, is an ideal product for making maps, calendars, tags, P.O.P. displays, manuals, business cards, membership cards, flip charts, presentation folders, door hangers and many more.

MXM is now offered in 2 groups as follows

MXM-SF which was successfully introduced in 1998

Typical Technical Properties of MXM-SF

Property	Test Method	Units		Typical Values	Typical Values
Thickness Range		ins.		0.0034- 0.008	0.0084-0.028
Yield		sq. in/lb.		0.0044+4,420	0.010+2,420
		sq. in/lb.		0.008+2,430	0.012+2010
Specific Gravity				1.41	1.14
Tensile Strength	ASTM-D638	psi	MD	2,800	3,000
		psi	TD	2,000	2,500
Elongation	ASTM-D638	psi	MD	350	100
		psi	TD	50	40
Tear Resistance	ASTM-D1922	gm/mm	MD	500	500
		gm/mm	TD	650	800

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MXM-RF has a smoother surface than MXM-SF making it more suitable for bar code imprinting

Typical Technical Properties of MXM-RF

Property	Test Method	Units		Typical Value		
Thickness		ins		0.006	0.008	0.010
Yield		sq. in/lb.		3940	2960	2360
Tensile Strength	ASTM-D638	psi	M.D. T.D.	>4000 >2500	>4000 >2500	>3500 >2000
Elongation	ASTM-D638	%	M.D. T.D.	>500 >80	>500 >80	>300 >60
Tear Strength	ASTM-D1922	gm/mm	M.D. T.D.	400 500	400 500	500 600
Transmittance	ASTM-D1003	%		<25	<25	<18
Whiteness	ASTM-E313	%		>78	>78	>78
Gloss Value (60°)	ASTM-D523	%	S 1 S 2	2-5 2-5	2-5 2-5	2-5 2-5
Surface Roughness (463 Emb)	JIS-B0601	μ+	S 1 S 2	15-35 25-60	15-35 25-60	15-35 25-60
Surface Roughness (463 Emb)	JIS-B0601	μ+	S 1 S 2	45-65 30-65	45-65 30-65	45-65 30-65

MXM-ES has increased tear resistance and outdoor weatherability along with the same smooth surface as MXM-RF

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TRANSILWRAP COMPANY, INC.



Laminating Film Thin Gauge

DESCRIPTION:

Xtreme Bond Laminating Film is a premium grade polyester or nylon base film with a proprietary adhesive formulated for adhesion to fuser oil base inks and other difficult to adhere to digital toners. Xtreme Bond laminate provides greater range of uses and applications. Its unique formulation allows immediate lamination to "wet" inks without delay and subsequent finishing operations.



CHARACTERISTICS:

- Available in gloss and matte finishes.
- Superior abrasion resistance.
- High clarity laminating film (polyester and nylon).
- Water, oil, acid, and alkali resistant.
- Can be die-cut.
- Enhances overall color and appearance of graphics.
- Excellent alternative to PSA film.
- Easy to apply.

APPLICATIONS:

- Digital prints, such as Xerox Docutech and Docucolor, Nexpress and Xeikon Systems.

TECHNICAL DATA:

PROPERTIES		1.2 Nylon*	1.2 PET	1.3 Nylon*	1.7 Nylon*	1.7 PET	1.7 PET	ASTM
FINISH		GLOSS	GLOSS	MATTE	GLOSS	GLOSS	MATTE	
THICKNESS $\pm 10\%$		.0012	.0012	.0013	.0017	.0017	.0017	
SURFACE TENSION - dyne - adhesive side		52-56						
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 – 0.55						D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	6,600	26,307	6,000	8,400	30,400	5,964	D 882
	TD	5,302	30,460	5,700	7,800	34,500	8,068	
ELONGATION - %	MD	35	140	35	87	160	40	D 882
	TD	17	105	43	74	120	27	
YIELD - in ² /lb.		22,512	19,510	19,924	15,891	15,068	14,935	
LAMINATING TEMPERATURE RANGE - °F - INTERNAL		240 to 260						
BOND STRENGTH - p/I – laminated to itself		3-5	3-5	3-5	4-6	4-6	4-6	

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Revision Date: 04/13/2010

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Trans-Kote[®] Nylon/MR Laminating Film

DESCRIPTION:

Trans-Kote[®] Nylon/MR laminating film is a super clear nylon-base film that resists curling. It features a specially-formulated low-melt-point copolymer thermal adhesive designed for high speed, single-side laminating.

CHARACTERISTICS:

- Ideal for single-side applications such as paperback book covers, maps and posters.
- Can be foil stamped, printed and glued.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

TECHNICAL DATA:

PROPERTIES		1.2	1.3	1.7	ASTM
		GLOSS	MATTE	GLOSS	
THICKNESS $\pm 10\%$		.0012"	.0013"	.0017"	
SURFACE TENSION - dyne - adhesive side		44 to 52			
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55			D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	6,660	6,000	8,400	D 882
	TD	5,302	5,700	7,800	
ELONGATION - %	MD	35	35	87	D 882
	TD	17	43	74	
YIELD - in./lb		21,078	21,078	16,385	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°			
BOND STRENGTH - p/i - laminated to itself		5 to 7		7 to 8	

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Revision Date: 05/12/2009



Trans-Kote[®] Scuff Resist Matte Nylon/MR Laminating Film

DESCRIPTION:

Trans-Kote[®] Scuff Resist Matte Nylon/MR laminating film is a high-clarity, nylon-base film designed for high-speed, single-side laminating. This film provides more resistance to scuffing and scratching than standard matte films and has a specially formulated copolymer thermal adhesive for a low melt point lamination.

CHARACTERISTICS:

- Superior scuff resistance.
- Water, oil, acid, and alkali resistant.
- Can be die cut.
- Enhances overall durability and appearance of graphics
- Excellent alternative to PSA film.
- Easy to apply.
- Improved burst-ability.
- Accepts spot UV printing.

APPLICATIONS:

Book jackets, maps and posters.

TECHNICAL DATA:

PROPERTIES		1.3 MATTE	ASTM
THICKNESS $\pm 10\%$		.0013"	
SURFACE TENSION - dyne - adhesive side		44 to 52	
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55	D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	6,000	D 882
	TD	5,700	
ELONGATION - %	MD	35	D 882
	TD	43	
YIELD - in./lb		21,078	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°	
BOND STRENGTH - p/i - laminated to itself		5 to 7	

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Revision Date: 9/18/2009



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Trans-Kote[®] OPP/MR Laminating Film

DESCRIPTION:

Trans-Kote[®] OPP/MR laminating film is a high-clarity polypropylene-base film designed for high speed, single-sided laminating at an economical price. This film is manufactured with a specially formulated copolymer thermal adhesive for a low-melt-point.

CHARACTERISTICS:

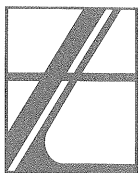
- Ideal for laminating book jackets and report covers.
- Available in matte and gloss finishes.
- Matte finish is corona treated for spot U.V. printing.

TECHNICAL DATA:

TECHNICAL DATA				
PROPERTIES		1.2	1.3	ASTM
		GLOSS	MATTE	
THICKNESS ± 10%		.0012	.0013	
SURFACE TENSION – dyne – adhesive side		52 to 56		
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.30 to 0.40		D 1894
TENSILE STRENGTH – PSI ± 10%	MD	8,700	8,000	D 882
	TD	16,200	15,000	
ELONGATION - %	MD	190		D 882
	TD	170		
YIELD - in ² /lb		24,500	21,445	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°		
BOND STRENGTH –p/i – laminated to itself		4 to 7		

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Revision Date: 05/12/2009



Oriented Polyester

DESCRIPTION:

Oriented Polyester films are rigid plastics that are strong, durable, dimensionally stable, and have anti-curl properties. They are suitable for graphics, packaging, electrical and industrial applications. Oriented Polyester films are available in super-clear to clear matte, and

smooth to matte surfaces. Available in sheets and rolls with widths from .5" to 92" with 3", 6", and 10" cores. Gauges are available from .00032" to .014", and special surface treatments include ink adhesion, slip, and anti-static.

CHARACTERISTICS:

- Easily printed with water or solvent based inks using flexography, offset lithography, and screen printing.
- Can be folded, sheeted, die cut, grommited, glued, and sewn.
- Excellent chemical and abrasion resistance and temperature resistance.
- General inertness and free of additives.

TECHNICAL DATA:

MECHANICAL PROPERTIES		TYPICAL VALUES	TEST CONDITIONS	TEST METHOD-ASTM
TENSILE STRENGTH		MD >20 kg/mm ² TD >20 kg/mm ²	25° C	D-882-64
ELONGATION AT BREAK		MD 100 to 120% TD 100 to 120%	25° C	D-882-84
F-5 VALUE		MD 9.5 kg/mm ² TD 9.5 kg/mm ²	25° C	D-882-64
IMPACT STRENGTH		400 g cm/cm ²	25° C. 25μ film	D-1709-62
TEAR STRENGTH - PROPAGATING		20 g/mil	25° C. 25μ film	D-1922-61
ELMENDORF INITIAL - GRAVES		800 g/mil	25° C. 25μ film	D-1004-66
BURSTING STRENGTH		>5 kg/cm ²	25° C. 25μ film	D-774-63
FOLDING ENDURANCE		10 ⁵ cycle	25° C. 25μ film	D-2176-63
PHYSICAL PROPERTIES				
DENSITY		1.390 to 1.405 g/cm ³	25° C	D-1505-63
MOISTURE ABSORPTION		.05 wt%	23° C, 24 hr	D-570-63
TRANSMISSION RATE:	WATER VAPOR	25 g/m ² /24 hr	25μ film @ 40° C. @ 100% R.H.	E-98-66
	OXYGEN	40 cm ³ /m ² /24 hr	25μ film @ 25° C. @ 1 atm	D-1434-66
COEFFICIENT OF FRICTION: FILM/FILM	KINETIC	CF 0.3 to 0.5	25° C	D-1894-63
	STATIC			
THERMAL PROPERTIES				
MELTING POINT		280 C°		
SOFTENING POINT		250 C°		
HEAT SHRINKAGE		2.0 %	150° C X 30 min	D-2305-67
SERVICE TEMPERATURE		-70° to +150° C		
SPECIFIC HEAT		0.3 cal g °C	25° C	
COEFFICIENT OF LINEAR THERMAL EXPANSION		3x10 ⁻⁵ cm/cm/°C	30° C to 50° C	D-696-44
COEFFICIENT OF THERMAL CONDUCTIVITY		3x10 ⁻⁴ cal/cm sec °C		
ELECTRICAL PROPERTIES				
DIELECTRIC STRENGTH		7,500 volts/mil	25° C 60hz	D-149-64
DIELECTRIC CONSTANT		3.3	25° C 60hz	D-150-65
DIELECTRIC DISSIPATION		0.0025	25° C 60hz	D-150-65
VOLUME RESISTIVITY		10 ¹⁸ ohm-cm	25° C	D-257-66 & D-2305-67
SURFACE RESISTIVITY		10 ¹² ohm-cm/cm	23° C 80% R.H.	D-257-66

Note: The stated values are typical data and are not specification of guarantee. Transilwrap suggests that purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transilwrap Company, Inc.



Trans-Kote® KRTY Laminating Film

DESCRIPTION:

Trans-Kote® KRTY laminating film is a super clear polyester-base film with a copolymer adhesive that enables it to adhere to a wide range of surfaces, including heavily printed papers, photographic paper and film, vinyls and other plastics. Trans-Kote® KRTY is an excellent film for protecting photographs, ID cards and display panels.

CHARACTERISTICS:

- Excellent rigidity.
- Superior abrasion resistance.
- Water, oil, acid, and alkali resistant.
- Can be die cut.
- Chemical matte films have a writable matte surface.

TECHNICAL DATA:

PROPERTIES	1		GLOSS	5		10	ASTM
	GLOSS	FILLED MATTE		GLOSS	CHEM. MATTE		
THICKNESS ±10%	.003"		.005"	.005"	.007"	.010"	.012"
SURFACE TENSION - dyne - adhesive side	44 to 52						
COEFFICIENT OF FRICTION OF BASE FILM SIDE	0.45 to 0.55						D 1894
TENSILE STRENGTH - psi ±10%	MD	8,800	11,000	14,000	19,650	19,250	22,900
	TD	10,00	12,500	15,000	22,350	21,900	26,000
ELONGATION - %	MD	150					D 882
	TD	100					
YIELD - in2/lb		8,671	4,900	4,667	3,140	2,120	1,740
LAMINATING TEMPERATURE RANGE-°F - internal	230° to 250°						
BOND STRENGTH - p/i -laminated to itself	9 to 11		15 - 20				

NOTE: All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the "Information") shall be used only as a guide by Purchaser and not for specification or any other purpose. The Information does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own tests. Transilwrap shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the Information.

Revision Date: 01/11/2011



Trans-Kote® PET/MR Laminating Film Thin Gauge

DESCRIPTION:

Trans-Kote® PET/MR laminating film, thin gauge is a high-clarity, abrasion-resistant polyester-base film designed for high speed single- and double-sided laminating. Trans-Kote® PET/MR laminating film, thin gauge is a number of films that are 2 mils and thinner.

CHARACTERISTICS:

- Ideal for laminating book jackets, posters, menus and maps, as well as a wide variety of commercial applications that demand excellent clarity and protection.
- Available in gloss, matte, and satin surfaces.
- Low-melt-point adhesive.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

TECHNICAL DATA:

PROPERTIES		1.	1.			1.		1 1	ASTM
		GLOSS	GLOSS*	MATTE	SATIN	GLOSS	MATTE	GLOSS	
THICKNESS ±10%		.0012"	.0013"			.0017"		.002"	
SURFACE TENSION - dyne - adhesive side		44 to 52							
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55			0.30	0.45 to 0.55			D 1894
TENSILE STRENGTH - psi ±10%	MD	26,307	28,500	5,608	11,500	30,400	5,964	13,400	D 882
	TD	30,460	33,000	8,176	10,500	34,500	8,068	16,000	
ELONGATION - %	MD	140	150	18	100	160	40	94	D 882
	TD	105	110	37	95	120	27	108	
YIELD - in2/lb		19,510	19,260		19,300	15,265	15,460	12,350	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°							
BOND STRENGTH - p/i - laminated to itself		5 to 7	4 to 6			6 to 8	4 to 6	9	

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*1. mil gloss finish laminating film can be glued, stamped, and printed.

Revision Date: 05/12/2009



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Trans-Kote® PET/MR Laminating Film Thin Gauge

DESCRIPTION:

Trans-Kote® PET/MR laminating film, thin gauge is a high-clarity, abrasion-resistant polyester-base film designed for high speed single- and double-sided laminating. Trans-Kote® PET/MR laminating film, thin gauge is a number of films that are 2 mils and thinner.

CHARACTERISTICS:

- Ideal for laminating book jackets, posters, menus and maps, as well as a wide variety of commercial applications that demand excellent clarity and protection.
- Available in gloss, matte, and satin surfaces.
- Low-melt-point adhesive.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

TECHNICAL DATA:

PROPERTIES		1.	1.			1.		1 1	ASTM
		GLOSS	GLOSS*	MATTE	SATIN	GLOSS	MATTE	GLOSS	
THICKNESS ±10%		.0012"	.0013"			.0017"		.002"	
SURFACE TENSION - dyne - adhesive side		44 to 52							
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55			0.30	0.45 to 0.55			D 1894
TENSILE STRENGTH - psi ±10%	MD	26,307	28,500	5,608	11,500	30,400	5,964	13,400	D 882
	TD	30,460	33,000	8,176	10,500	34,500	8,068	16,000	
ELONGATION - %	MD	140	150	18	100	160	40	94	D 882
	TD	105	110	37	95	120	27	108	
YIELD - in2/lb		19,510	19,260		19,300	15,265	15,460	12,350	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°							
BOND STRENGTH - p/i - laminated to itself		5 to 7	4 to 6			6 to 8	4 to 6	9	

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*1. mil gloss finish laminating film can be glued, stamped, and printed.

Revision Date: 05/12/2009



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Trans-Kote® PGS & PGS-UV Laminating Films

DESCRIPTION:

Trans-Kote® PGS & PGS-UV laminating films are high-clarity aggressive adhesive polyester-base films that have been permanently treated for printability, foil and hot stamping, and increased bond strength to both aqueous and solvent base inks. Trans-Kote® PGS & PGS-UV laminating films are also embossable, glueable and stampable.

CHARACTERISTICS:

- Excellent films that allow customers to enhance their printed materials with additional printing or other decoration of the top surface. Films are permanently print treated for use of conventional and UV offset inks or varnishes.
- Superior abrasion resistance.
- Water, oil, acid, and alkali resistant.
- Can be die cut.
- Request PGS-UV film when post lamination finishing is performed with UV offset inks and coatings.

TECHNICAL DATA:

PROPERTIES		1.	ASTM
		GLOSS	
THICKNESS ± 10%		.0013"	
SURFACE TENSION – dyne – adhesive side		44 to 52	
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.40 to 0.55	D 1894
TENSILE STRENGTH – psi ± 10%	MD	28,500	D 882
	TD	33,000	
ELONGATION - %	MD	150	D 882
	TD	110	
YIELD - in ² /lb		19,260	
LAMINATING TEMPERATURE RANGE - °F – internal		210° - 230°	
BOND STRENGTH – p/i – laminated to itself		4 to 6	

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Revision Date: 05/12/2009



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Trans-Kote[®] Ultraburst Laminating Film

DESCRIPTION:

Trans-Kote[®] Ultraburst laminating film is a high-clarity, abrasion-resistant polyester-base film designed for high speed single- and double-sided laminating.

CHARACTERISTICS:

- Ideal for laminating book jackets, posters, menus and maps, as well as a wide variety of commercial applications that demand excellent clarity and protection.
- Available in gloss, matte, and satin surfaces.
- Low-melt-point adhesive.
- Water, oil, acid, and alkali resistant.
- Can be die cut.

TECHNICAL DATA:

PROPERTIES		1.	ASTM
		GLOSS	
THICKNESS $\pm 10\%$		.0012"	
SURFACE TENSION - dyne - adhesive side		44 to 52	
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55	D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	26,307	D 882
	TD	30,460	
ELONGATION - %	MD	140	D 882
	TD	105	
YIELD - in ² /lb		19,510	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°	
BOND STRENGTH - p/i - laminated to itself		5 to 7	

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Revision Date: 4/22/2009



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Trans-Kote[®] Scuff Resist Matte PET/MR Laminating Film

DESCRIPTION:

Trans-Kote[®] Scuff Resist Matte PET/MR laminating film is a high-clarity, polyester-base film designed for high-speed laminating. This film provides more resistance to scuffing and scratching than standard matte films and has a specially formulated copolymer thermal adhesive for a low melt point lamination.

CHARACTERISTICS:

- Superior scuff resistance.
- Water, oil, acid, and alkali resistant.
- Can be die cut.
- Enhances overall durability and appearance of graphics
- Excellent alternative to PSA film.
- Easy to apply.
- Improved burst-ability.
- Accepts spot UV printing.

APPLICATIONS:

Book jackets, maps and posters.

TECHNICAL DATA:

PROPERTIES		1.3	1.7	3.0	ASTM
THICKNESS $\pm 10\%$		.0013"	.00170	.00300	
SURFACE TENSION - dyne - adhesive side		44 to 52			
COEFFICIENT OF FRICTION OF BASE FILM SIDE		0.45 to 0.55			D 1894
TENSILE STRENGTH - psi $\pm 10\%$	MD	12,100	9,235	5,235	D 882
	TD	12,600	9,640	5,460	
ELONGATION - %	MD	100	100	100	D 882
	TD	95	95	95	
YIELD - in./lb		19,130	15,170	9,355	
LAMINATING TEMPERATURE RANGE - °F - internal		210° to 230°			
BOND STRENGTH - p/i - laminated to itself		5 to 7	6 to 8	7 to 9	

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Revision Date: 5/18/2010



TRANSILWRAP of CANADA, LTD.

PRO-Print® Synthetic Paper

DESCRIPTION:

PRO-Print® is an extruded, mineral filled polypropylene sheet. It is available in white opaque with a matte/matte or gloss/matte finish.

CHARACTERISTICS:

- ~ Easily printed using flexography, offset lithography, gravure and screen printing.
- ~ Can be folded, hot stamped, embossed, die cut, riveted, stapled, and sewn.
- ~ Environmentally friendly.
- ~ Vacuum forming characteristics allow deep draw without excessive wall thinning and less "snap back" or post forming shrinkage.
- ~ Better mold shape transferal and faster cycle times.

TECHNICAL DATA:

PROPERTIES		10 MIL	15 MIL	TEST METHOD	
THICKNESS +/- 5% or .001 maximum (whichever is greater)		.010+	.015+	T411	
GRAMMAGE		276 g/m ²	414 g/m ²	T410	
BASIS WEIGHT		(56.5 lbs / 1000 ft ²)	(84.8 lbs / 1000 ft ²)		
YIELD		2.75 MSI/lb @ .010+	1,725 in ² /lb		
SPECIFIC GRAVITY		1.05 g/cm ²	1.05 g/cm ²	D 1505	
TENSILE STRENGTH	MD	3400 psi	3000 psi	D 882	
	TD	3000 psi	2400 psi		
ELONGATION	MD	550%			
	TD	500%			
TEAR RESISTANCE @ .010+	MD	INITIATED 1 lbs	INITIATED 1.5 lbs	D 1938	
	TD	4 lbs	6.5 lbs		
	MD	UNINITIATED 6.4 lbs	UNINITIATED 9 lbs	D 1004	
	TD	8.0 lbs	12 lbs		
UNNOTCHED IZOD IMPACT*		NO BREAKS		D 256A	
WETTING TENSION		40 dynes / cm ²		T 698	
HDT @ 264 psi*		145°F		D 648	
STIFFNESS	MD	10 TABER UNITS	34 TABER UNITS		
	TD	13 TABER UNITS	44 TABER UNITS		

* indicates data was obtained from molded samples only, in an unannealed state.

* indicates data was obtained from molded samples only, in an unannealed state.

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ProPrint® Plus Synthetic Paper

DESCRIPTION:

ProPrint® Plus is an engineered extruded mineral filled polypropylene. This specialized formula is available in white opaque with a matte/matte or gloss/matte finish.

Characteristics:

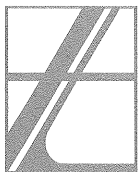
- Enhanced rigidity and stiffness over classic ProPrint ®
- Easily printed using offset lithography, UV Digital, gravure, flexography and screen printing
- Can be folded, hot stamped, embossed, die cut, riveted, stapled and glued
- Characteristics allow for deep draw forming
- Better mold shape transferal and faster cycle times
- Recycle code #5

Available thicknesses: Rolls 6 mil to 20 mil
 Sheets 10 mil to 60 mil

TECHNICAL DATA:

PROPERTIES		UNIT	TYPICAL VALUES		TEST METHOD
THICKNESS ± 5% or .001 Maximum (whichever is greater)		inches	.010	.015	T 411
GRAMMAGE BASIS WEIGHT		g / m ²	415	275	D 4321
YIELD		in ² / lb	2,560	1,700	
SPECIFIC GRAVITY		g/cm ³	1.08	1.08	D 1505
TENSILE STRENGTH @ BREAK	MD	psi	3700	3650	D 882
	TD		2950	2900	
ELONGATION @ BREAK	MD	%	435	500	
	TD		450	475	
TEAR RESISTANCE INITIATED	MD	lb	1.5	3.0	D 1938
	TD		8.4	15	
TEAR RESISTANCE UNINITIATED	MD	lb	7.3	10.0	D 1004
	TD		9.3	12.0	
IMPACT RESISTANCE (GARDNER IMPACT)		in-lb	5.7	7.7	D 5420
WETTING TENSION - minimum	Corona Treated	dynes/cm	40	40	D 2578
	Non Corona treated		34	34	
STIFFNESS	MD	Taber Units	15	43	D 5342
	TD		12	47	
HDT @ 264 psi*		° F	147		D 648

* indicates data was obtained from molded samples only, in an unannealed state.



Stick-Mate™ Permanent Adhesive Vinyl

DESCRIPTION:

Stick-Mate™, a Transilwrap Trans-Cling™ product, is a pressure sensitive vinyl on a 90# liner. It has an aggressive, high tack, permanent adhesive. Stick-Mate™ is available top coated and non-top coated, clear or white, in 20"x 27" & 27"x 38" sheets and 54" x 750' rolls for sheeting.

CHARACTERISTICS:

- Stick-Mate™ is excellent for indoor and outdoor use, especially transit advertising applications.
- Can be printed using conventional or UV inks for flexo, offset, or screen process printing.
- Excellent for bumper stickers, P-O-P decals, and product markings.
- Good dimensional stability and two year shelf life under proper storage conditions.

TECHNICAL DATA:

PROPERTIES	TYPICAL VALUES	TEST METHOD
THICKNESS	3.4 mil film; 4.2-4.6 mils with adhesive	
APPLICATION TEMPERATURE	+ 40° F Min.	
SERVICE TEMPERATURE	-40° F to +200° F	
SURFACE FINISH	Gloss	
ADHESION	40 oz./in. (to stainless steel)	PSTC method #1
WATER RESISTANCE	Not recommended where immersed.	
HUMIDITY RESISTANCE	Fair	
EXPECTED EXTERIOR EXPOSURE	2 Years	
STORAGE STABILITY	2 YR. @ 70° F and 50% relative humidity	

Note: The stated values are typical data and are not specification of guarantee. Transilwrap suggests that purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transilwrap Company, Inc.



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TRANSILWRAP of CANADA, LTD.

Teslin Synthetic Paper

Teslin is a synthetic, opaque white, micro-porous printing media which acts more like paper than the other plastics. It is available in sheets and rolls up to 57+wide. Teslin is available in the *SP* series which is the regular type, *SPID* series which is specially formulated and coated for use in laser copiers and printers, *HD* series which is of higher density and *Digital* which is specifically designed for the Indigo Printers. Teslin is stocked in SP-800, SP-1000, SP-1400, 1000SPID and HD-1400. Other types are available to special order.

Characteristics:

- Easily printed by flexography, lithography, screen and thermal transfer systems.
- Can be folded, die cut, heat sealed, grommited, glued and sewn.
- Excellent chemical, abrasion and temperature resistance.
- Micro-porous structure transmits vapors but not liquids.
- Can be impregnated with fragrances for specialty applications.
- Excellent substrate for laminating core.

Technical Data:

				Typical Values			
Property	Test	Units		SP 800	SP 1000	SP 1400	HD 1400
Gauge	D374	mils		8	10	14	14
Gauge Tolerance	D374	+/- mils		0.7	0.7	0.9	1.0
Yield	D3776	sq.in/lb		5760	4640	3190	2550
Basis Weight -500shts 25x38		lb		82	102	149	186
Tensile Strength	D882	lb/in ²	MD	11.8	12	15.3	19.6
			TD	6	6.2	8.7	11.2
Elmendorf Temperature	D1922	gms	MD	90	92	132	210
			TD	tore	tore	tore	tore
Brittleness Temperature	D746	°C		>-70	>-70	>-70	>-70
Sheffield Smoothness	T538		top	38	42	45	71
			bottom	62	64	67	118

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TRANSILWRAP COMPANY, INC.

Product Data Sheet

Trans-Cling™ Clear Vision

Description:

Trans-Cling Clear Vision is a .002 mil print treated clear polypropylene with a hard coat that promotes adhesion to glass or other smooth, non-porous surfaces. Trans-Cling Clear Vision removes just like static cling. The backside of this film has no tack. Printable by screen printing, UV wide format and UV and conventional offset printing.

Characteristics:

- CPSIA certified.
- Removes cleanly from smooth, non-porous surfaces.
- Clean removability and repositionability for up to 1 year.
- Can be wet applied.
- No adhesive residue.
- Does not contain vinyl or PVC.
- Can be used outdoors.

Applications:

- POP window graphics.
- Temporary protective film.
- General signage.

Technical Data

Properties	
Thickness	.002
Liner	Lay-flat polyester liner or 90# paper liner
Finish	Gloss
Printer Compatibility	Material suitable for Screen Process, conventional and UV offset lithography and UV wide format.
Dimensional Stability	Good
Minimum Application Temperature	Currently 25 F. Testing to confirm as low as 15F
Adhesion	24 hours 1oz/1" 180° peel value on stainless steel
Shelf Life	2 Years when stored at 74° F and 50% relative humidity

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Printed in the USA 10/2010



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TRANSILWRAP of CANADA, LTD.

Trans Tear ResistantTM

Synthetic Paper

Trans Tear ResistantTM is a cast Polypropylene sheet with surface layers formulated for printability and having exceptional tear resistance. It has a similar feel as coated paper stocks but with the water and chemical resistance of plastic. It can be printed using any of the following methods: lithography, flexography, gravure, letterpress, screen and thermal transfer. The use of inks specially formulated for plastics are recommended.

Trans Tear ResistantTM is an ideal product for making maps, manuals, calendars, tags, POP displays, flip charts, door hangers and many more.

The outdoor life can be improved by the addition of a UV stabilizer. Such a product is identified to as **Trans Tear ResistantTM UV**. It would have similar properties to **Trans Tear ResistantTM**

Typical Technical Properties 0.008+sheet

Property	Units		Typical Value
Thickness	ins		0.008
Yield	sq. ins./lb.		3560
Tensile Strength	psi	T.D.	3200
Elongation	%	T.D.	850
Tear Strength	gm	T.D.	481
Opacity	%		97

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Transalloy® P-260EX Multi-Polymer Alloy

DESCRIPTION:

P-260EX is a rigid Transalloy® that has been especially formulated for durability, high tear resistance and excellent impact strength. It offers a medium range of rigidity and is often used as the PVC alternative in platen press laminated card applications. P-260EX is available in natural, white translucent and white opaque with satin/matte or ultra gloss/matte finishes, and in sheets and roll widths up to 65". Options include colors, corona treatment and UV inhibitors.

CHARACTERISTICS:

- Can be printed using flexo, offset and screen processes.
- Environmentally friendly.
- Suitable for most one or two sided applications.
- Non-toxic and FDA approved upon request.
- Can be stapled, vacuum formed, grommeted, die cut, punched, hot or cold folded, perforated and glued.

TECHNICAL DATA:

PROPERTIES	TYPICAL VALUES	TEST METHOD
THICKNESS \pm 5% or .001 Maximum (whichever is greater)	.010" to .050"	T 411
YIELD @ .020	1300 in ² /lb	T 410
SPECIFIC GRAVITY @ .020	1.03 g/cm ³	D 1505
TENSILE STRENGTH @ .020	MD 3300 psi TD 2800 psi	D 882
ELONGATION @ .020	MD 135 TD 150	D 882
TEAR RESISTANCE @ .020	INITIATED MD .9 lbs TD 1.4 lbs UNINITIATED MD 7.0 lbs TD 7.4 lbs	D 1938 D 1938 D 1004 D 1004
WETTING TENSION	45 Dynes/cm ² minimum	T 698
STIFFNESS @ .020	MD 90 Taber Units TD 117 Taber Units	

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Transalloy® P-300 Multi-Polymer Alloy

DESCRIPTION:

P-300 is a Transalloy® sheet that is especially formulated for durability, high tear resistance and excellent impact strength for the most demanding applications. Its satin surface is specifically engineered for printing and provides superior performance on and off the press. P-300 is available in natural, white translucent, white opaque, and colors, in satin/matte or ultra gloss/matte finishes and in sheets and roll widths up to 65". Options include corona treatment and UVI inhibitors.

CHARACTERISTICS:

- Can be printed using flexo, offset and screen processes.
- Can be stapled, vacuum formed, grommited, die cut, punched, hot or cold folded, perforated and glued.
- Environmentally friendly

TECHNICAL DATA:

PROPERTIES	TYPICAL VALUES	TEST METHOD
THICKNESS - tolerance is $\pm 5\%$ or .001 Maximum (whichever is greater)	.010" to .050"	T 411
YIELD	1300 in ² /lb @ .020"	T 410
SPECIFIC GRAVITY	1.03 g/cm ³	D 1505
TENSILE STRENGTH @ .020"	MD 2600 psi TD 2700 psi	D 882
ELONGATION @ .020"	MD 170% TD 290%	D 882
TEAR RESISTANCE @ .020"	INITIATED MD 1.1 lbs TD 1.3 lbs UNINITIATED MD 6.6 lbs TD 7.5 lbs	D 1938 D 1004
WETTING TENSION	40 dynes/cm ² minimum	T 698
STIFFNESS @ .020"	MD 64 Taber Units TD 84 Taber Units	

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TRANSILWRAP of CANADA, LTD.

Trans-Block®

Rigid Blockout PVC

Trans-Block® is a bright white calendered rigid vinyl engineered to feed quickly and reliably through sheeters and printing presses. Unlike competing block-out substrates, Trans-Block® has excellent lay-flat characteristics and superior dimensional stability for precise colour registration. Trans-Block® can be sewn, grommited, and is an exceptional material for use in the construction of high-end banners, pennant strings and push/pull signage.

Applications:

- Advertising Media
- Promotional Notices
- Display Media
- Indoor Retail Promotion
- Light Duty Signage

Advantages:

- Excellent opacity for two-sided printing

- Exceptional tear strength
- Superior lay-flat characteristics
- Superior dimensional stability for colour registration
- Economically priced
- Easy to print using methods including screen, UV and conventional offset, and flexography

Typical Technical Properties

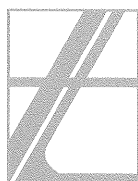
Property	Typical Values	Units	Test Method
Typical Gauge	8	mil	
Thickness Tolerance: < 8 mil 8,1 . 16 mil > 16,1 mil	+/- 10 +/- 7 +/- 5	%	DIN 53370 (95% of all measurements)
Density	1,37 +/- 0,01 (no pigments)	g/cm ³	DIN 53479
Tensile Strength	> 450 (surface m/m)	kJ/m ²	DIN EN ISO 8256
Vicat Softening Point	83 °C +/- 2	°C	ASTM D-1575 1 kg oil . stacked samples
MD Heat Expansion: < 5,5 mil 5,6 . 7mil > 7,1 mil	max. - 7	%	In accordance to DIN 5337 (105 °C/5 min)
Surface Tension	- 38 roll-side - 36 air-side	nM/m (dynes/cm)	In accordance to DIN 53364 measured with inks (pens)

Note: The above stated values are typical data and are not specification of guarantee. Transilwrap suggests that the purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transilwrap of Canada, Ltd.



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Trans-Cling™ Window Face Film

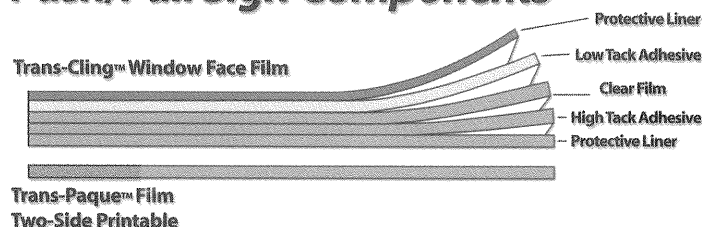
DESCRIPTION:

Trans-Cling™ Window Face Film is a 2.0 mil clear film coated with adhesives and a clear protected liner on both sides. One side is coated with a permanent pressure-sensitive adhesive for cold lamination to the printed plastic's surface. The other side is coated with a low tack removable adhesive that will adhere your printed decal or signage to glass exterior doors, glass windows, or glass cooler doors. It can also be cleanly removed when the promotion or application has concluded.

CHARACTERISTICS:

- Designed to produce push/pull signs that adhere seamlessly to glass. Other surfaces must be tested before applying application.
- Companion product for two-sided printable, completely opaque Trans-Paque™ Film for the creation of push/pull signs.
- Clarity of film and adhesive allows printed graphics to show through clearly.
- More versatile than static cling vinyl; eliminates flood coating, reverse printing and other processes to produce push/pull signs.
- Two-year shelf life when stored at 73° F and 50% relative humidity.

Push/Pull Sign Components



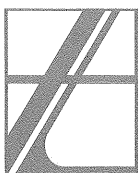
SPECIAL PRECAUTIONS:

The adhesion of the permanent adhesive to an ink may be directly affected by additives in the ink. Silicones or additives in the ink may reduce adhesion of the permanent adhesive to unacceptable levels. Test every ink system for compatibility with the permanent adhesive before production.

TECHNICAL DATA:

PROPERTIES	UNIT	MINIMUM APPLICATION TEMPERATURE	SERVICE TEMPERATURE RANGE	THICKNESS VARIANCE
THICKNESS Film - Clear Adhesive Liner - Clear	2.0 Mil 0.0008 +/- 0.0002 1.5 Mil on Both Sides			+/- 10%
WIDTH	Rolls up to 54"			
TEMPERATURE RANGES		50°F	-40°F to +180°F	
ADHESION	15 to 17 oz to glass PSTC-1 with 24 hour dwell at 73° F and 50% relative humidity. Typical values. Individual values may vary. Test thoroughly before production.			
SHEAR (1/2" X 1/2" X 500 GMS)	2 Years			
WATER RESISTANCE	Fair. Not recommended where immersed.			

NOTE: All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the "Information") shall be used only as a guide by Purchaser and not for specification or any other purpose. The Information does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own tests. Transilwrap shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the Information.



Trans-Cling™ II Low Tack Vinyl

DESCRIPTION:

A vinyl film with a low-tack pressure sensitive adhesive for use on smooth surfaces. It is available in white or clear, polished or matte surface.

CHARACTERISTICS:

- Can be applied to most clean, non-porous surfaces.
- Withstands many weather conditions.
- Temperature ranges from -40°F to 200°F.

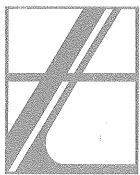
APPLICATIONS:

- Interior and exterior doorway signs.
- Refrigerator/freezer point-of-purchase signs.
- Point-of-purchase decals for appliances.
- Window decals for stores and cars...and more.

TECHNICAL DATA:

PROPERTIES	CLEAR POLISHED	WHITE MATTE
THICKNESS (mil)	4.8 to 5.2 mil with adhesive.	
PRINTING	Material suitable for screen process, offset lithography, and flexography.	
DIMENSIONAL STABILITY	GOOD	
MIN. APPLICATION TEMPERATURE	+40°F	
EXTERIOR EXPOSURE	Test for U.V. discolor under extreme conditions.	
ADHESION	Glass - 8 to 16 oz./in. Removable up to 1 year on interior applications and 6 months on exterior applications.	
WATER & HUMIDITY RESISTANCE	Fair. Slight haze will develop in high humidity conditions and will clear when normal humidity returns.	
STORAGE STABILITY	6 months when stored at 70°F and 50% relative humidity.	

Note: The stated values are typical data and are not specification of guarantee. Transilwrap suggests that purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transilwrap Company, Inc.



TRANSILWRAP COMPANY, INC.

Transilprint® Offset Put-Up

The Transilprint® offset put-up is designed so that anyone can easily print on plastic! A special, high-tech paper is glued to the back of the selected substrate along one or two edges. The two "married" sheets pass through the printing press together.

BENEFITS:

- Backing paper absorbs moisture
- Static electricity is dramatically reduced
- Reduced drying time
- Fewer press-jams
- Eliminates offsetting

APPLICATIONS:

The Transilprint System can be used when printing on:

- Oriented Polyester
- Vinyl
- Styrene
- Acetate
- and many other plastics

Note: The information and suggestions contained herein represent the best information available to Transilwrap Co. and we believe them to be reliable. They should not, however, be construed as controlling and are presented without guarantee of performance either expressed or implied. We urge purchasers to conduct confirming tests to determine final suitability for their specific end uses.





TRANSILWRAP of CANADA, LTD.

TransPaqueTM

Block Out Film

TransPaqueTM is a bright white, opaque polypropylene film engineered to feed quickly and reliably through printing presses. The opacity of **TransPaqueTM** is high allowing printing on both sides without any ghosting. It has excellent lay-flat characteristics and superior dimensional stability, allowing for precise colour registration. **TransPaqueTM** can be sewn and grommited. It is an exceptional material for use in the construction of high end, light duty banners and pennant strings. **TransPaqueTM** is also ideal for indoor and outdoor tags.

Typical Technical Properties

Property	Test Method	Units	Typical Values
Gauge		mil	8-12
Thickness Tolerance		%	+/- 4%
1% Secant Modulus	ASTM D-882-95A	1000 psi	117
Tensile Strength	ASTM D-882-95A	psi	3000
Elongation at Break	ASTM D-882-95A	%	850
Gloss	ASTM-D-2457-90		20-29
Opacity		%	100
Cold Crack		°C	-30

Note: The above stated values are typical data and are not specification of guarantee. Transilwrap suggests that the purchaser confirm product compatibility prior to use of this product. Stated values are believed to be accurate, but all information is presented without guarantee or responsibility on the part of Transilwrap of Canada, Ltd.



TRANSILWRAP of CANADA, LTD.

Transvy® Gloss Rigid Vinyl

DESCRIPTION:

A gloss, two-sides, rigid PVC film. It is available in clear, white, transparent, and opaque colors. Transparent and opaque colors are available on special quote. Transvy® is available in sheets or rolls in widths up to 60".

CHARACTERISTICS:

- ~ Moisture resistant.
- ~ High puncture and tear strength.
- ~ High gloss.
- ~ Water and oil resistant.
- ~ Acid and alkali resistant.

- ~ Can be die cut, welded, glued, folded, embossed, punched, laminated and thermoformed.
- ~ Superior dimensional stability.
- ~ Flame resistant, self extinguishing.
- ~ More economical than other vinyls.

TECHNICAL DATA:

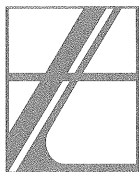
PROPERTIES	ASTM METHOD	UNIT	TYPICAL VALUES
THICKNESS - tolerance is 5% or .001 whichever is greatest		inches	.005 through .025
SPECIFIC GRAVITY	D1505	g/cm ³	1.33
TENSILE STRENGTH	D882	psi	7185
ELONGATION AT BREAK	D1822	%	210
IMPACT STRENGTH under TENSION	D1790	ft. lb/in ²	250
COLD BREAK TEMPERATURE	D1790	°C (°F)	-25 (-13)
VICAT SOFTENING	D1525	°C (°F)	79 (174)
SHRINKAGE (MD)	D1204	%	0 to -3
SHRINKAGE (TD)	D1204	%	-1 to +1

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Trans-Flex-Cast™ Static Cling Vinyl

DESCRIPTION:

Trans-Flex-Cast™, a soft polished flexible vinyl adhered to cast coated board, is called an “adhesiveless decal”. Trans-Flex-Cast™ will self-adhere to most smooth surfaces including glass, polished metal and other plastics. It has been especially formulated for screen, offset and lithographic printing. Trans-Flex-Cast™ is ideal for window displays, point-of-purchase, freezer and refrigerator decals, and auto window decals.

CHARACTERISTICS:

- Easy to print using screen printing, offset lithography, or flexography, using conventional, waterless or U.V. inks.
- Easy to die-cut and guillotine cut.
- Self-adhering to most smooth surfaces, such as glass, porcelain, glossy plastic and some metals.
- Easily removable, repositionable and reusable, since it has no adhesive backing
- Trans-Flex-Cast™ is available in custom converted rolls and sheets. Gauges available are .006 or .008 vinyl and 8pt. or 10pt board to meet your specifications. Custom liners are available upon request.
- Trans-Flex-Cast™ is available in clear or white, and standard or surface prepared for additional ease of printing.

TECHNICAL DATA: Specs Based on .008 Gauge Product.

PROPERTIES		TYPICAL VALUES		ASTM METHOD
		WHITE	CLEAR	
GAUGE		7.5		
HAND		6S		
FINISH		Double Polished		
TENSILE STRENGTH - (lbs)	MD	Equal or greater than - 18		D 882
	TD	Equal or greater than - 18		
ELONGATION - %	MD	250 minimum		D 882
	TD	250 minimum		
DIMENSIONAL STABILITY -%	MD	Equal or less than - 5%		D 882
	TD	Equal or less than - 3%	Equal or less than - 2%	
FILM CHARACTERISTICS		Printable static cling film. General Purpose		

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TRANSILWRAP of CANADA, LTD.

TXP®

Extruded Polyester

TXP is extruded in gauges from .003+to 0.250+using Eastman Chemical Company's Spectar® PETG copolymer resin. It is exceptionally strong and has good durability, high clarity and gloss. IT can be sealed, folded, formed, embossed, guillotined and die cut. TXP is suitable for screen printing and thinner sheets can be printed by lithography and flexography.

TXP is stocked in 0.020+sheets of 48"x 72.5"+in size. Other sizes, gauges and abrasion resistant matte surface are available to special order. Also, TXP UV can be supplied for signs, displays, cycle (and similar) helmets, packaging and many more applications.

TECHNICAL DATA:

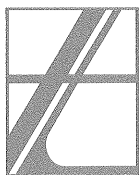
Property	Test Method	Units	Typical Values	
Thickness Range		ins.	.0003 . 0.250	
Test Thickness		ins.	0.08	
Specific Gravity	ASTM D1505		1.27	
Tensile Strength at Yield	ASTM D638	psi	7,700	
Tensile Strength at Break	ASTM D638	psi	4,500	
Elongation at Yield	ASTM D638	%	4.7	
Elongation at Break	ASTM D638	%	210	
Flexural Modulus	ASTM D790	10 ³ psi	320	
Flexural Strength	ASTM D790	psi	10,300	
Rockwell Hardness	ASTM D785	R Scale	104	
Impact Resistance Puncture, Energy at Max Load	ASTM D3763	ft-lb.ft./in.	23°C	15
			0°C	18
			-10°C	19
			-20°C	21
			-30°C	18
UL Flammability Classification	UL 94	UL rating	94HB	
Coefficient of Linear Therm. Exp.	ASTM D1003	/°F	0.00004	
Haze	ASTM D1003	%	<1	
Light Trans	ASTM D1003	%	Specular	87
			Diffuse	88
Gloss	ASTM D523	units	162	
Refractive Index	ASTM D542		1.57	

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Tyvek® Spunbonded Olefin

DESCRIPTION:

A spunbonded olefin available in white opaque gauges from .0053 to .010. Tyvek® is durable, tear resistant and able to stand harsh environments.

CHARACTERISTICS:

- Resists water and most chemicals.
- Lightweight and easy to handle.
- Stocked in 7657D, others available as special order.
- Can be cut, sewn, glued, grommetted, perforated and folded.
- Prints well in black and white and four color process.

TECHNICAL DATA:

PROPERTIES		7657D	1073D	1079	1085D	TEST METHOD
BASIS WEIGHT - oz./sq.yd.	Tyvek® (uncoated)	2.0	2.2	2.85	3.2	ASTM-D3776
	Tyvek® II (uncoated)	-	-	-	-	
THICKNESS	Mils	7.5	7.6	8.0	10.2	ASTM-D1777
	± 3 Sigma Range	4.3-10.7	4.4-10.8	5.0-11.0	6.5-13.9	
STRIP TENSILE - lbs./in.	MD	37	44	66	68	ASTM-D1682 ¹
	CD	41	49	70	74	
ELONGATION - %	MD	17	19	23	22	ASTM-D1682 ¹
	CD	21	24	28	26	
WORK TO BREAK - in.-lbs.	MD	18	24	39	38	ASTM-D1682 ¹
	CD	25	29	46	46	
TEAR, ELMENDORF - lbs.	MD	1.1	1.0	0.8	1.2	ASTM-D1424
	CD	1.1	0.9	0.8	1.3	
OPACITY, COLORQUEST - %		97	94	91	97	
INTERNAL BOND - lbs./in.		0.32	0.42	0.74	0.49	ASTM-D2724 ²
TREATMENT	Corona	YES	YES	YES	YES	
	Antistat	YES	YES	YES embossed	YES	

Notes: All values are nominals except where otherwise noted. MD - Machine Direction; CD - Cross Direction ¹Cut Strip; CRE tensile tester, crosshead speed 2 in./min., gauge length 5 in. ²CRE tensile tester, crosshead speed modified 5 in./min., distance 5 in. peel.

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Tyvek® is a DuPont registered trademark for its brand of spunbonded olefin. Only Dupont makes Tyvek®.



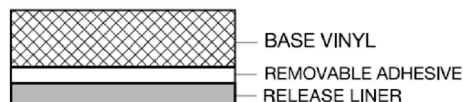


TRANSILWRAP of CANADA, LTD.

WalkerTalker® Vinyl Base Component*

DESCRIPTION:

The WalkerTalker® floor graphics printable component is a white, vinyl film with a removable pressure sensitive adhesive and a 90 lb. release liner. The surface is treated to provide adhesion for various printing inks. The acrylic removable adhesive is specifically designed for high performance removable applications.



CHARACTERISTICS:

- Excellent slip resistance, passed UL 410 Floor Coating and Finishing Material+(slip resistance only when used as part of WalkerTalker® system).
- Excellent anti-curl properties assure economical performance through printing and coating operations.
- Water, oil, acid, and alkali resistant.
- Excellent UV stability and resistance to thermal aging.
- Easy stripping liner with minimal adhesive "pick".
- Can be die-cut.
- Printable using offset, screen, digital screen and flexo processes

TECHNICAL DATA:

PROPERTIES		TYPICAL VALUES	TEST METHOD
Thickness - Vinyl Facestock		0.0035+	
Thickness - Adhesive		0.001+	
Thickness - Liner		0.0068+	
Adhesion	Stainless Steel	0.30 lbs/in Nominal 180° peel @ 20 min. dwell	PSTC1 Modified
		1.0 lbs/in Nominal 180° peel @ 24 hr. dwell	
	Industrial Vinyl Tile	0.25 lbs/in Nominal 180° peel @ 20 min. dwell	
		0.5 lbs/in Nominal 180° peel @ 24 hr. dwell	
Liner Release - T-Peel @ 30cm/min		25 gm/in	PSTC4 Modified
Yield		2200 sq. in/lb	

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* WalkerTalker® Vinyl Base Component is only sold as a companion to WalkerTalker® overlaminating components.



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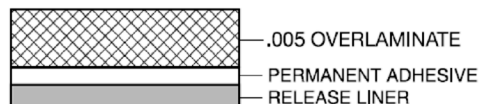


TRANSILWRAP of CANADA, LTD.

WalkerTalker® Overlamine*

DESCRIPTION:

The WalkerTalker® floor graphics overlamine component is a scratch resistant film with a water-clear permanent pressure sensitive adhesive. The overlamine is a calendered film processed to provide a satin (mar resistant) first surface. The acrylic adhesive used has been formulated for high tack and high peel adhesion.



CHARACTERISTICS:

- Excellent slip resistance, passed UL 410 Floor Coating and Finishing Material+(slip resistance only when used as part of WalkerTalker® system).
- Excellent UV stability and resistance to thermal aging.

- Easy stripping liner with minimal adhesive "pick".
- Superior scratch resistance and wear.
- Water, oil, acid, and alkali resistant.
- Can be die-cut.

TECHNICAL DATA:

PROPERTIES	TYPICAL VALUES		TEST METHOD
Thickness - Vinyl Facestock	0.006+	0.008+	
Thickness - Adhesive	0.0018+nominal	0.0018+nominal	
Thickness - Liner	0.002+	0.002+	
Adhesion - Stainless Steel	4.0 lbs/in Nominal 180° peel @ 20 min. dwell	4.0 lbs/in Nominal 180° peel @ 20 min. dwell	PSTC1 Modified
	8.0 lbs/in Nominal 180° peel @ 24 hr. dwell	8.0 lbs/in Nominal 180° peel @ 24 hr. dwell	PSTC1 Modified
Liner Release	4 gm/in nominal	4 gm/in nominal	PSTC4 Modified
Yield	1987 sq in/lb	1987 sq in/lb	

Note: All information and recommendations should be used as a guide and not for specification purposes. Furnishing this information does not constitute a warranty. All purchasers shall independently determine the suitability of the material for the purpose for which it is purchased. Users shall assume all risks resulting from the use of our products and must confirm adaptability thereof by their own tests. Liability will in no event exceed value of the material sold.

* WalkerTalker® Overlamine is only sold as a companion to WalkerTalker® base components.



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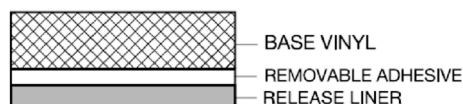


TRANSILWRAP of CANADA, LTD.

WalkerTalker® Vinyl Base Component*

DESCRIPTION:

The WalkerTalker® floor graphics printable component is a white, vinyl film with a removable pressure sensitive adhesive and a 90 lb. release liner. The surface is treated to provide adhesion for various printing inks. The acrylic removable adhesive is specifically designed for high performance removable applications.



CHARACTERISTICS:

- Excellent slip resistance, passed UL 410 Floor Coating and Finishing Material+(slip resistance only when used as part of WalkerTalker® system).
- Excellent anti-curl properties assure economical performance through printing and coating operations.
- Water, oil, acid, and alkali resistant.
- Excellent UV stability and resistance to thermal aging.
- Easy stripping liner with minimal adhesive "pick".
- Can be die-cut.
- Printable using offset, screen, digital screen and flexo processes

TECHNICAL DATA:

PROPERTIES		TYPICAL VALUES	TEST METHOD
Thickness - Vinyl Facestock		0.0035+	
Thickness - Adhesive		0.001+	
Thickness - Liner		0.0068+	
Adhesion	Stainless Steel	0.30 lbs/in Nominal 180° peel @ 20 min. dwell	PSTC1 Modified
		1.0 lbs/in Nominal 180° peel @ 24 hr. dwell	
	Industrial Vinyl Tile	0.25 lbs/in Nominal 180° peel @ 20 min. dwell	
		0.5 lbs/in Nominal 180° peel @ 24 hr. dwell	
Liner Release - T-Peel @ 30cm/min		25 gm/in	PSTC4 Modified
Yield		2200 sq. in/lb	

Note: All information and recommendations should be used as a guide and not for specification purposes. Furnishing this information does not constitute a warranty. All purchasers shall independently determine the suitability of the material for the purpose for which it is purchased. Users shall assume all risks resulting from the use of our products and must confirm adaptability thereof by their own tests. Liability will in no event exceed value of the material sold.

* WalkerTalker® Vinyl Base Component is only sold as a companion to WalkerTalker® overlaminating components.

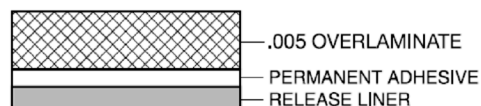


TRANSILWRAP of CANADA, LTD.

WalkerTalker® Overlamine*

DESCRIPTION:

The WalkerTalker® floor graphics overlamine component is a scratch resistant film with a water-clear permanent pressure sensitive adhesive. The overlamine is a calendered film processed to provide a satin (mar resistant) first surface. The acrylic adhesive used has been formulated for high tack and high peel adhesion.



CHARACTERISTICS:

- Excellent slip resistance, passed UL 410 Floor Coating and Finishing Material+(slip resistance only when used as part of WalkerTalker® system).
- Excellent UV stability and resistance to thermal aging.

- Easy stripping liner with minimal adhesive "pick".
- Superior scratch resistance and wear.
- Water, oil, acid, and alkali resistant.
- Can be die-cut.

TECHNICAL DATA:

PROPERTIES	TYPICAL VALUES		TEST METHOD
Thickness - Vinyl Facestock	0.006+	0.008+	
Thickness - Adhesive	0.0018+nominal	0.0018+nominal	
Thickness - Liner	0.002+	0.002+	
Adhesion - Stainless Steel	4.0 lbs/in Nominal 180° peel @ 20 min. dwell	4.0 lbs/in Nominal 180° peel @ 20 min. dwell	PSTC1 Modified
	8.0 lbs/in Nominal 180° peel @ 24 hr. dwell	8.0 lbs/in Nominal 180° peel @ 24 hr. dwell	PSTC1 Modified
Liner Release	4 gm/in nominal	4 gm/in nominal	PSTC4 Modified
Yield	1987 sq in/lb	1987 sq in/lb	

Note: All information and recommendations should be used as a guide and not for specification purposes. Furnishing this information does not constitute a warranty. All purchasers shall independently determine the suitability of the material for the purpose for which it is purchased. Users shall assume all risks resulting from the use of our products and must confirm adaptability thereof by their own tests. Liability will in no event exceed value of the material sold.

* WalkerTalker® Overlamine is only sold as a companion to WalkerTalker® base components.



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