



PRODUCT CODE: 3-1048


PRODUCT DESCRIPTION

2.0-mil topcoated brushed chrome polyester offers exceptional brilliance of a metalized film. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals and point of purchase graphics.

APPLICATIONS

- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window graphics

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 
- Topcoated for use with a wide range of ink systems and print methods.

TECHNICAL DATA

Face Material	2.0 mil polyester topcoated
Color and Finish	Brushed chrome
Adhesive	07, permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

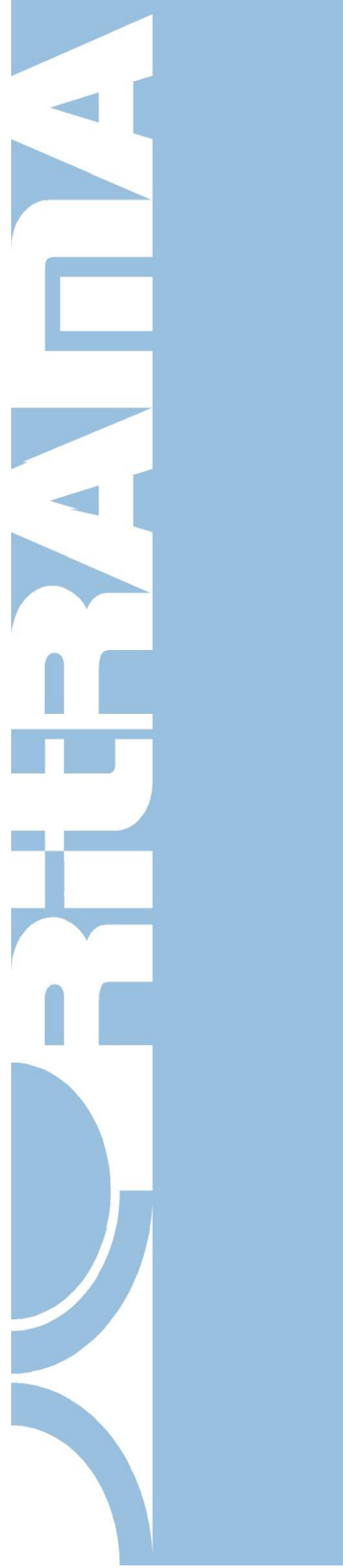
Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.4 lbs./inch	4.8 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Cloudiness
10% HC1 (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June 05



PRODUCT CODE: 3-1064


PRODUCT DESCRIPTION

1.0-mil topcoated chrome polyester offers exceptional brilliance of a metalized film. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals and point of purchase graphics. Topcoated for use with a wide range of ink systems and print methods.

APPLICATIONS

- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window decals

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 

TECHNICAL DATA

Face Material	1.0 mil polyester topcoated
Color and Finish	Bright chrome
Adhesive	07, permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.9 lbs./inch	5.4 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Cloudiness
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.
June-05



PRODUCT CODE: 3-1075


PRODUCT DESCRIPTION

2.0-mil topcoated chrome polyester offers exceptional brilliance of a metallized film. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals, and point of purchase displays.

APPLICATIONS

- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window decals

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 
- Topcoated for use with a wide range of ink systems and print methods.

TECHNICAL DATA

Face Material	2.0-mil polyester topcoated
Color and Finish	Bright chrome
Adhesive	07, permanent acrylic
Liner	90# polycoated 2 sides lay flat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3.3 lbs./inch	<u>24 hr.</u> 4.4 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Cloudiness
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June-05



PRODUCT CODE: 3-1097


PRODUCT DESCRIPTION

1.0-mil clear polyester film topcoated for use with a wide range of ink systems and print methods. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals, point of purchase displays and window graphics.

APPLICATIONS

- Decals
- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window graphics

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 

TECHNICAL DATA

Face Material	1.0 mil polyester topcoated
Color and Finish	Gloss clear
Adhesive	07 permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.5 lbs./inch	4.7 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Cloudiness
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June 05



PRODUCT CODE: 3-1113


PRODUCT DESCRIPTION

2.0-mil clear polyester film topcoated for use with a wide range of ink systems and print methods. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals and point of purchase displays.

APPLICATIONS

- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window graphics

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 

TECHNICAL DATA

Face Material	2.0 mil polyester topcoated
Color and Finish	Gloss clear
Adhesive	07, permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.6 lbs./inch	5.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Cloudiness
10% HC1 (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June-05



PRODUCT CODE: 3-1119

PRODUCT DESCRIPTION

2.0-mil clear polyester film print treated/Uniprint for use with UV and conventional inks. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals and point of purchase displays.

APPLICATIONS

- Decals
- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window graphics

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249.



TECHNICAL DATA

Face Material	2.0 mil Polyester Print-treated
Color and Finish	Gloss clear
Adhesive	07 permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.7 lbs./inch	5.5 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HC1 (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June-05



PRODUCT CODE: 3-1141


PRODUCT DESCRIPTION

2.0-mil topcoated matte chrome polyester provides a unique matte look to your labels and decals. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals, and point of purchase displays.

APPLICATIONS

- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window graphics

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 
- Topcoated for use with a wide range of ink systems and print methods.

TECHNICAL DATA

Face Material	2.0 mil polyester topcoated
Color and Finish	Matte chrome
Adhesive	Permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.4 lbs./inch	4.9 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Cloudiness
10% HC1 (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.
June-05



PRODUCT CODE: 3-1186

PRODUCT DESCRIPTION

3.5 mil PromoCal™ flexible vinyl is a promotional vinyl. Ideal for printing one or two-color decals, bumper strips and other identification pieces that require a printable liner for printing application instructions or promotional information such as coupons or advertisements on the decal liner.

APPLICATIONS

- Bumper strips
- General screen printing
- Multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5 mil matte white flexible vinyl, 40 adhesive, 108# printable tag liner

TECHNICAL DATA

Face Material	3.5 mil flexible vinyl
Color and Finish	Matte white
Adhesive	40 medium tack permanent acrylic
Liner	108# Printable tag

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.7 lbs./inch	5.7 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-1187

PRODUCT DESCRIPTION

3.5 mil PromoCal™ flexible vinyl is a promotional vinyl. Ideal for printing one or two-color decals, bumper strips and other pieces identification pieces that require a printable liner for printing application instructions or promotional information such as coupons or advertisements on the decal liner

APPLICATIONS

- Bumper strips
- General screen printing
- Multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5 mil matte white flexible vinyl, 50 adhesive, 108# printable tag liner.

TECHNICAL DATA

Face Material	3.5 mil flexible vinyl
Color and Finish	Matte white
Adhesive	50 removable acrylic
Liner	108# Printable tag

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 2.6 lbs./inch	<u>24 hr.</u> 4.0 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	6 months removability from most surfaces	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-1190

PRODUCT DESCRIPTION

3.5-mil premium calendared vinyl consists of a flexible, semi-gloss film having excellent weathering and aging characteristics. Used for decorative striping, transportation markings, flat surface, product identification and warning decals.

APPLICATIONS

- Decorative trim
- Transportation markings
- Flat surface
- Product identification
- Window decals

FEATURES AND BENEFITS

- Features a hi-tack permanent acrylic adhesive for use in cold weather applications.

TECHNICAL DATA

Face Material	3.5-mil premium calendared vinyl
Color and Finish	Semi-gloss white
Adhesive	02 hi-tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 80 oz.	<u>24 hr.</u> 100 oz.
Minimum Application Temperature	32°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	5 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-99

Form 108-01 (1/99)



PRODUCT CODE: 3-1191

PRODUCT DESCRIPTION

3.5-mil premium calendared vinyl consists of a flexible, semi-gloss film having excellent weathering and aging characteristics. Used for decorative striping, transportation makings, flat surface, product identification and warning decals. Specifically designed adhesive does not ghost or leave residue over time.

APPLICATIONS

- Decorative striping
- Product identification
- Signage
- Transportation makings
- Warning labels

FEATURES AND BENEFITS

- 3.5 mil semi-gloss white premium vinyl, 17 adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil premium calendared vinyl
Color and Finish	Semi-gloss White
Adhesive	17 repositionable medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	4.2 lbs./inch	6.0 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	5 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-1247

PRODUCT DESCRIPTION

3.5-mil flexible frosty clear vinyl is an intermediate vinyl for general screen printing. This film is designed for multiple color labels and decals, point of purchase displays, bumper strips and other identification pieces. Has moderate conformable characteristics.

APPLICATIONS

- Bumper strips
- General screen printing
- Promotional multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5-mil frosty clear flexible vinyl, 07 adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Frosty Clear
Adhesive	07 medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	50 oz.	64 oz.
60° Gloss ASTM 02457	15° ± 5°	
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.
Sept-98



PRODUCT CODE: 3-1260

PRODUCT DESCRIPTION

10.0-mil semi-rigid intermediate vinyl is ideal for general screen-printing. This film is designed for multi-color labels and decals, point of purchase graphics, bumper strips and other identification pieces. This film is also used as an opaque white backer for translucent digital printing. Dimensionally stable face film for good registration and halftone printing.

APPLICATIONS

- Bumper strips
- Promotional multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- Good registration and halftone printing
- 10.0 mil matte white semi-rigid vinyl, 07 adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	10.0-mil semi-rigid vinyl
Color and Finish	Matte White
Adhesive	07 medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 4.5 lbs./inch	<u>24 hr.</u> 6.0 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-1276

PRODUCT DESCRIPTION

3.5-mil matte white intermediate vinyl with high tack permanent acrylic adhesive recommended for use in cold weather applications and other hard-to-adhere-to substrates. This film is designed for promotional multi-color labels and decals, vending machines, architectural graphics and other identification pieces.

APPLICATIONS

- Architectural graphics
- Promotional multi-color labels and decals
- Product identification
- Point of purchase displays
- Vending machines

FEATURES AND BENEFITS

- High tack permanent acrylic recommended for hard-to-adhere substrates.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte white
Adhesive	02 high tack permanent acrylic adhesive
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	6.2 lbs./inch	8.3 lbs./inch
Minimum Application Temperature	32°F	
Service Temperature Range	-65°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

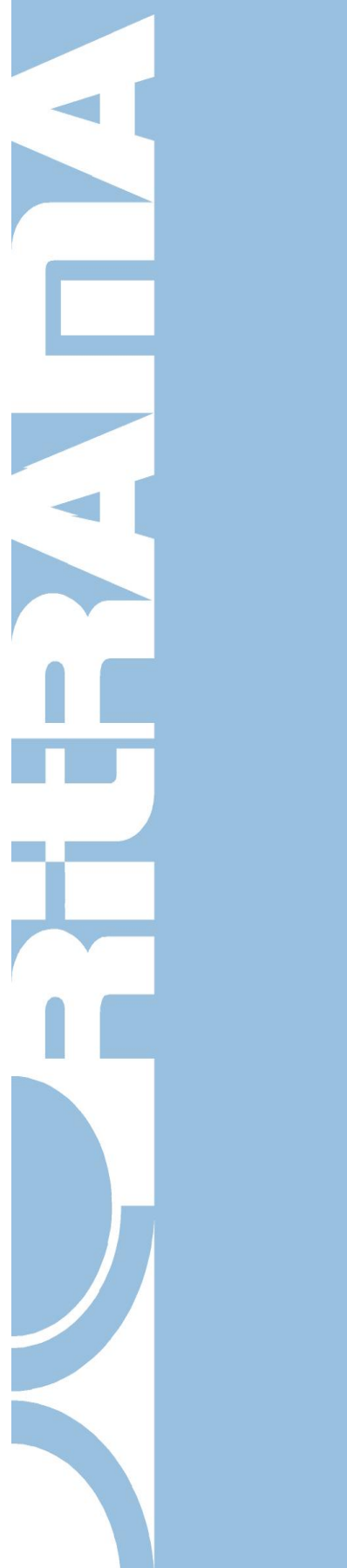
CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-1282


PRODUCT DESCRIPTION

This matte white flexible vinyl is an intermediate grade vinyl that is ideal for general screen-printing, solvent, eco-solvent and UV inkjet printing. This film is designed for promotional multi-color labels and decals, point of purchase graphics, and other identification pieces and it has moderately conformable characteristics.

APPLICATIONS

- Architectural graphics
- Multiple color labels and decals
- Point of purchase displays
- Product identification
- Vending machines

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 
- Has moderately conformable characteristics.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte white
Adhesive	07 medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	4.8 lbs./inch	6.2 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June-09

Form 108-01 (1/99)



PRODUCT CODE: 3-1283

PRODUCT DESCRIPTION

3.5-mil matte white flexible vinyl is an intermediate grade vinyl with a grey blockout permanent adhesive. This film is designed for promotional multi-color labels and decals, point of purchase graphics, bumper stickers and other identification pieces.

APPLICATIONS

- Promotional multi-color labels and decals
- Point of purchase displays
- Bumper stickers
- Product identification

FEATURES AND BENEFITS

- Has moderate conformable characteristics.
- Recommended for screen printing.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte white
Adhesive	07G grey pigmented, medium tack permanent acrylic
Liner	90# polycoated, bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 4.3 lbs./inch	<u>24 hr.</u> 5.5 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-1296

PRODUCT DESCRIPTION

6.0-mil semi-rigid intermediate vinyl is ideal for general screen-printing. This film is designed for promotional multi-color labels and decals, p.o.p. graphics, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- Promotional multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- Dimensionally stable face film for good registration and halftone printing.
- 6.0 mil matte white semi-rigid vinyl, 07 adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	6.0-mil semi-rigid vinyl
Color and Finish	Matte white
Adhesive	07 medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	5.3 lbs./inch	7.5 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-1309


PRODUCT DESCRIPTION

2.0-mil gloss white polyester film topcoated for use with a wide range of ink systems and print methods. Polyester films have many uses including decorative trim, product identification pieces, two-way window decals and point of purchase graphics.

APPLICATIONS

- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window graphics

FEATURES AND BENEFITS

- UL-Recognized product: file number MH14249. 
- Topcoated for use with a wide range of ink systems and print methods.

TECHNICAL DATA

Face Material	2.0 mil polyester topcoated
Color and Finish	Gloss white
Adhesive	07, permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.4 lbs./inch	4.7 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HC1 (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June-05



CLEAR CLING PRODUCT CODE: 3-1321

PRODUCT DESCRIPTION

7.0-mil STATIC CLING gloss clear flexible vinyl adheres to glass or polished top surfaces without the use of adhesive.

APPLICATIONS

- Children's stickers and game pieces
- Decals
- Product Identification
- Promotional products
- Temporary product identification
- Window graphics

FEATURES AND BENEFITS

- Adheres to glass or polished top surfaces without the use of adhesive

TECHNICAL DATA

Face Material	7.0-mil static cling vinyl
Color and Finish	Gloss Clear
Adhesive	Not applicable
Liner	10pt coated cardstock printable layflat

TYPICAL CHARACTERISTICS

Printability	Excellent
Minimum Application Temperature	20°F
Service Temperature Range	-0°F to +175°F
Shelf Life (@ 73°F, 50% RH)	6 months
Outdoor Durability	Not recommended

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	Poor
10% Ammonium Hydroxide (10 min)	Poor
Anti-Freeze (24 hr)	Poor
SAE 20 Motor Oil (24 hr)	Poor
Gasoline (1 hr)	Poor

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

May-14

Form 108-01(1/99)



WHITE CLING PRODUCT CODE: 3-1322

PRODUCT DESCRIPTION

7.0-mil Static Cling gloss white flexible vinyl adheres to glass or polished top surfaces without the use of adhesive.

APPLICATIONS

- Children's stickers and game pieces
- Decals
- Product Identification
- Promotional products
- Temporary product identification
- Window graphics

FEATURES AND BENEFITS

- Adheres to glass or polished top surfaces without the use of adhesive
- Printable layflat liner

TECHNICAL DATA

Face Material	7.0-mil static cling vinyl
Color and Finish	Gloss white
Adhesive	Not applicable
Liner	10pt coated cardstock printable layflat

TYPICAL CHARACTERISTICS

Printability	Excellent
Inks	Vinyl
Minimum Application Temperature	20°F
Service Temperature Range	-0°F to +175°F
Shelf Life (@ 73°F, 50% RH)	6 months
Outdoor Durability	Not recommended

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	Poor
10% Ammonium Hydroxide (10 min)	Poor
Anti-Freeze (24 hr)	Poor
SAE 20 Motor Oil (24 hr)	Poor
Gasoline (1 hr)	Poor

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.
May-14 Form 108-01 (1/99)



PRODUCT CODE: 3-1473

PRODUCT DESCRIPTION

3.5-mil premium calendared vinyl consists of a flexible, semi-gloss film having excellent weathering and aging characteristics. Used for decorative striping, transportation makings, flat surface, product identification and warning decals. Specifically designed adhesive does not ghost or leave residue over time.

APPLICATIONS

- Decorative striping
- Product identification
- Signage
- Transportation makings
- Warning labels

FEATURES AND BENEFITS

- 3.5 mil semi-gloss clear premium vinyl, 17 adhesive, 90# polycoated layflat liner.
- Specifically designed adhesive does not ghost or leave residue over time.

TECHNICAL DATA

Face Material	3.5-mil premium calendared vinyl
Color and Finish	Semi-gloss clear
Adhesive	17 repositionable medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.6 lbs./inch	5.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	5 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-1478

PRODUCT DESCRIPTION

3.5-mil light yellow flexible vinyl is an economical vinyl that is ideal for general screen-printing, promotional multi-color labels and decals, point of purchase graphics, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Promotional multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5 mil matte light yellow flexible vinyl, 40 adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte light yellow
Adhesive	40 medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.2 lbs./inch	5.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-1483

PRODUCT DESCRIPTION

3.5-mil black flexible vinyl is ideal for general screen-printing, promotional multi-color labels and decals, point of purchase graphics, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Promotional multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5 mil matte black flexible vinyl, 40 adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte black
Adhesive	40 medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3.0 lbs./inch	<u>24 hr.</u> 4.7 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-1487

PRODUCT DESCRIPTION

3.5-mil Advantage™ flexible vinyl is ideal for general screen-printing. Typical applications include: promotional multi-color labels, decals, point of purchase graphics, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Promotional multi-color labels and decals
- Temporary product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5-mil matte white flexible vinyl, permanent acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte white
Adhesive	Medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3.0 lbs./inch	<u>24 hr.</u> 4.5 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-1488

PRODUCT DESCRIPTION

3.5-mil Advantage™ flexible vinyl is ideal for general screen-printing, multi-color labels, decals and bumper strips, point of purchase graphics, and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Multi-color labels and decals
- Product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5 mil matte white flexible vinyl, removable acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte white
Adhesive	Removable acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 2.0 lbs./inch	<u>24 hr.</u> 3.0 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	6 months removability from most surfaces	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-1489

PRODUCT DESCRIPTION

3.5-mil Advantage™ semi rigid vinyl is ideal for promotional multiple color labels and decals, point of purchase graphics, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Promotional multi-color labels and decals
- Product identification
- Point of purchase displays
- Window graphics

FEATURES AND BENEFITS

- This product is printable by a variety of print technologies including screen, offset, letterpress and UV flexo.
- 3.5-mil matte white semi rigid vinyl, permanent acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil semi rigid vinyl
Color and Finish	Matte white
Adhesive	Medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.3 lbs/inch	5.3 lbs/inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

July-99

Form 108-01 (1/99)



PRODUCT CODE: 3-1491

PRODUCT DESCRIPTION

3.5-mil premium calendared vinyl consists of a flexible, semi-gloss film having excellent weathering and aging characteristics. Used for decorative striping, transportation markings, flat surface, product identification and warning decals. Features a grey pigmented adhesive for use where an opaque label is required.

APPLICATIONS

- Decorative trim
- Transportation markings
- Product identification
- Warning decals

FEATURES AND BENEFITS

- Excellent weathering and aging characteristics

TECHNICAL DATA

Face Material	3.5-mil premium calendared vinyl
Color and Finish	Semi-gloss white
Adhesive	02G pigment grey permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	70 oz.	100 oz.
Minimum Application Temperature	32°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	5 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-99

Form 108-01 (1/99)



PRODUCT CODE: 3-1507

PRODUCT DESCRIPTION

This 3.5-mil Advantage™ flexible vinyl is an economical vinyl that is ideal for general screen-printing, multiple color labels and decals, point of purchase displays, bumper stickers and other identification pieces.

APPLICATIONS

- Multiple color labels and decals
- Point of purchase displays
- Bumper stickers
- Product identification pieces

FEATURES AND BENEFITS

- Economical flexible vinyl

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Matte white
Adhesive	50, removable acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	24 oz.	35 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	Indoor use recommended	
Clean removability	6 month (depends on substrate applied to)	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Dec-09



PRODUCT CODE: 3-1586

PRODUCT DESCRIPTION

1-mil Advantage™ clear polyester film print-receptive is a high quality polyester that can be used with a wide range of ink systems and print methods. Polyester films have many uses including promotional decals and bumper strips, product identification pieces, two-way window decals and other point of purchase graphics.

APPLICATIONS

- Promotional decals
- Bumper strips
- Point of purchase displays
- Window graphics

FEATURES AND BENEFITS

- 1 mil print-receptive clear polyester with permanent acrylic adhesive on a 90# polycoated lay flat liner.

TECHNICAL DATA

Face Material	1.0 mil polyester print-receptive
Color and Finish	Gloss clear
Adhesive	Permanent acrylic
Liner	90# layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	1.7 lbs./inch	2.4 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Jul-98



PRODUCT CODE: 3-1587

PRODUCT DESCRIPTION

2-mil Advantage™ clear polyester film print-receptive is a high quality polyester that can be used with a wide range of ink systems and print methods. Polyester films have many uses including promotional decals and bumper strips, product identification pieces, two-way window decals and other point of purchase graphics.

APPLICATIONS

- Decals and bumper strips
- Point of purchase displays
- Product identification
- Two-way window graphics

FEATURES AND BENEFITS

- Can be used with wide variety of ink systems and print methods
- 2 mil print-receptive clear polyester with permanent acrylic adhesive on a 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	2.0 mil Polyester Print-Receptive
Color and Finish	Gloss clear
Adhesive	Permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	1.8 lbs/inch	2.6 lbs/inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Cloudiness
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Cloudiness

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Jul-98



PRODUCT CODE: 3-1666

PRODUCT DESCRIPTION

3.5-mil Advantage™ high gloss flexible vinyl is ideal for general screen-printing, promotional multi-color labels and decals, point of purchase graphics, bumper strips and other identification pieces.

APPLICATIONS

- General screen printing
- Promotional multi-color labels and decals
- Bumper strips
- Product identification
- Temporary product identification
- Point of purchase displays

FEATURES AND BENEFITS

- 3.5 mil gloss white flexible vinyl, permanent acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss white
Adhesive	Permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3.4 lbs./inch	<u>24 hr.</u> 4.8 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	1-2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-1667

PRODUCT DESCRIPTION

3.5-mil Advantage™ high gloss flexible vinyl is ideal for general screen-printing, promotional multiple color labels and decals, point of purchase graphics, and other identification pieces.

APPLICATIONS

- Point of purchase displays
- Product identification labels
- General screen printing
- Wall and window graphics
- Bumper strips

FEATURES AND BENEFITS

- 3.5-mil gloss clear flexible vinyl, permanent acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss clear
Adhesive	Permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 2.5 lbs./inch	<u>24 hr.</u> 3.5 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	1-2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-2826

PRODUCT DESCRIPTION

2.0-mil clear cast vinyl is ideal for computerized sign-making, decals, decorative striping, product identification, service station markings, outdoor signage, transportation markings and graphics, and warning labels.

APPLICATIONS

- Computerized sign-making
- Decals
- Decorative striping
- Product identification
- Service station markings
- Outdoor signage
- Transportation markings and graphics
- Warning labels

FEATURES AND BENEFITS

- 2.0-mil gloss clear flexible cast vinyl, permanent acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	2.0-mil flexible cast vinyl
Color and Finish	Gloss clear
Adhesive	Permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3.2 lbs./inch	5.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Outdoor Durability	7-9 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Oct-04

Form 108-01 (1/99)



PRODUCT CODE: 3-2831

PRODUCTION DESCRIPTION

This premium high performance cast vinyl film is engineered for application on flat, curved, irregular surfaces, and corrugations. It is used for recreational vehicle, fleet, marine, automotive, architectural and service station markings.

APPLICATIONS

- Recreational vehicles
- Fleet graphics
- Marine
- Automotive
- Architectural signage
- Service station markings

FEATURES AND BENEFITS

- High-performance, flexible cast vinyl ideal for application to irregular surfaces.

TECHNICAL DATA

Face Material	2.0 mil cast vinyl
Color and Finish	Gloss white
Adhesive	480, Medium tack acrylic
Liner	90# polycoated two sides lay flat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 10"/min., 73°F, on Stainless Steel)	<u>20 min.</u> 45 oz.	<u>24 hr.</u> 64 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-50°F to +200°F	
Elongation	120%	
60° Gloss	80 minimum	
Dimensional Stability (48 hrs. @150°F)	0.01 in	
Shelf Life (@ 73°F, 50% RH)	2 year	
Outdoor Durability	7 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
10% HCl (10 min)	No Effect
SAE 20 Motor Oil	No Effect
Gasoline (1hr)	No Effect
10% NH4oh (10 min)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. The purchaser, to determine suitability of the product for their purposes, should test all material.

Sept -09

Form 108-01 (1/99)



PRODUCT CODE: 3-2865

PRODUCTION DESCRIPTION

This premium high performance black cast vinyl film is engineered for application on flat, curved, irregular surfaces, and corrugations. It is used for recreational vehicle, fleet, marine, automotive, architectural and service station markings.

APPLICATIONS

- Recreational vehicles
- Fleet graphics
- Marine
- Automotive
- Architectural signage
- Service station markings

FEATURES AND BENEFITS

- High-performance, flexible cast vinyl ideal for application to irregular surfaces.

TECHNICAL DATA

Face Material	2.0 mil cast vinyl
Color and Finish	Black
Adhesive	480, Medium tack acrylic
Liner	90# polycoated two sides lay flat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 10"/min., 73°F, on Stainless Steel)	<u>20 min.</u> 45 oz.	<u>24 hr.</u> 64 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-50°F to +200°F	
Elongation	120%	
60° Gloss	80 minimum	
Dimensional Stability (48 hrs. @150°F)	0.01 in	
Shelf Life (@ 73°F, 50% RH)	2 year	
Outdoor Durability	7 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
10% HCl (10 min)	No Effect
SAE 20 Motor Oil	No Effect
Gasoline (1hr)	No Effect
10% NH4oh (10 min)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. The purchaser, to determine suitability of the product for their purposes, should test all material.

Sept -09

Form 108-01 (1/99)



PRODUCT CODE: 3-4328

PRODUCT DESCRIPTION

This 3.5-mil gloss clear flexible vinyl is ideal for general screen-printing. Applications include promotional multi-color labels and decals, point of purchase graphics and other product identification pieces.

APPLICATIONS

- Promotional multi-color labels and decals
- Point of purchase displays
- Product identification pieces

FEATURES AND BENEFITS

- Compatible with various printing methods

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss clear
Adhesive	47, permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3.4 lbs./inch	<u>24 hr.</u> 4.8 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	1-2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-4498

PRODUCT DESCRIPTION

2.0-mil chrome polyester film topcoated for use with a wide range of ink systems and print methods. Polyester films have many uses including decorative trim, product identification pieces two-way window decals and point of purchase displays.

APPLICATIONS

- Decorative trim
- OEM labels
- Point of purchase displays
- Product identification
- Two-way window decals

FEATURES AND BENEFITS

- 2.0-mil topcoated chrome polyester with permanent acrylic adhesive on a 90# bleached kraft liner.

TECHNICAL DATA

Face Material	2.0-mil polyester topcoated
Color and Finish	Bright chrome
Adhesive	Permanent acrylic, #47
Liner	90# polycoated bleached kraft

TYPICAL CHARACTERISTICS

Target Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	1.5 lbs./inch	2.0 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04

Form 108-01 (1/99)



PRODUCT CODE: 3-4509

PRODUCT DESCRIPTION

3.5-mil Ultra Cling™ gloss clear flexible vinyl, featuring an ultra low peel removable adhesive.

APPLICATIONS

- General screen printing
- Bumper strips
- Multiple color labels and decals
- Point-of-purchase graphics
- Product identification
- Promotional multi-color labels and decals
- Temporary product identification
- Wall graphics
- Window graphics

FEATURES AND BENEFITS

- Features a layflat liner and ultra low peel removable adhesive.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss clear
Adhesive	ANP ultra low peel removable acrylic
Liner	90# printable layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 0.1 lbs./inch	<u>24 hr.</u> 0.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	6 month removability (depends on substrate applied to)	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	Slight Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	NA
10% Ammonium Hydroxide (10 min)	Slight Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	Noticeable Lifting

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Sep-09



OPAQUE FRIENDLY PRINT PRODUCT CODE: 3-4525

PRODUCT DESCRIPTION

2.3-mil white topcoated opaque polypropylene with white pigmented adhesive designed for use as 2-way window graphics (when used with 3-7836 or 3-4595), cover-up labels, decals or other applications requiring a truly opaque stock.

When used with reversed printed 3-7836 or 3-4595 (gloss clear vinyl with ultra removable adhesive)


Ritrana WindowCal II™ is an excellent economical interior 2-way window advertisement .

This white film is metallized one side and coated with a white pigmented adhesive to achieve superior opacity. For use when applied to interior windows.

APPLICATIONS

- Multiple color two-way window graphics
- Interior windows

FEATURES AND BENEFITS

- Environmentally friendly 
- Ultimate opacity
- Screen and UV Ink jet printable

TECHNICAL DATA

Face Material	2.3-mil polypropylene topcoated
Color and Finish	White Gloss
Adhesive	81W pigment white permanent
Liner	50# bleached glassine

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 2.6 lbs./inch	<u>24 hr.</u> 3.2 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	1 year	
Outdoor Life	For indoor use only	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HC1 (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Dec-12

Form 108-01(1/99)



PRODUCT CODE: 3-4595

PRODUCT DESCRIPTION

3.5-mil Advantage RI-cling™ gloss clear flexible vinyl featuring an ultra low peel removable adhesive that is designed for point-of-purchase graphics, window decals, promotional multi-color labels and decals and other identification pieces.

APPLICATIONS

- General screen printing
- Product identification
- Point of purchase displays
- Promotional multi-color labels and decals
- Window graphics/ 2-way when used with product 3-4525

FEATURES AND BENEFITS

- Easy installation and removability
- Clean removability, no adhesive residue
- 6 month removability (depends on substrate applied to)

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss clear
Adhesive	64 ultra low peel removable acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3 oz./inch	2 oz./inch
60° Gloss ASTM 02457	70 +/- 5°	
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	Indoor use recommended	
Clean Removability	6 month (depends on substrate applied to)	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	Slight Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	NA
10% Ammonium Hydroxide (10 min)	Slight Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	Noticeable Lifting

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Dec-09



PRODUCT CODE: 3-4625

PRODUCT DESCRIPTION

3.4-mil CS Series™ flexible vinyl is ideal for general screen-printing, promotional labels and decals, point of purchase graphics, bumper strips and other identification pieces requiring one or two colors.

APPLICATIONS

- Bumper strips
- General screen printing
- Multi-color labels and decals
- Product identification
- Promotional labels and decals
- Point of purchase displays

FEATURES AND BENEFITS

- 3.4-mil matte white flexible vinyl, permanent acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.4-mil flexible vinyl
Color and Finish	Matte White
Adhesive	Medium tack permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	2.9 lbs./inch	4.4 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	1 year	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-4637

PRODUCT DESCRIPTION

3.4 mil flexible vinyl is ideal for general screen-printing, promotional labels and decals, point of purchase graphics, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Product identification
- Point of purchase displays
- Promotional labels and decals

FEATURES AND BENEFITS

- Removable adhesive for temporary applications

TECHNICAL DATA

Face Material	3.4-mil flexible vinyl
Color and Finish	Matte white
Adhesive	Medium tack removable acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 2.5 lbs./inch	<u>24 hr.</u> 3.3 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	Indoor use recommended	
Clean Removability	6 months (depends on substrate applied to)	

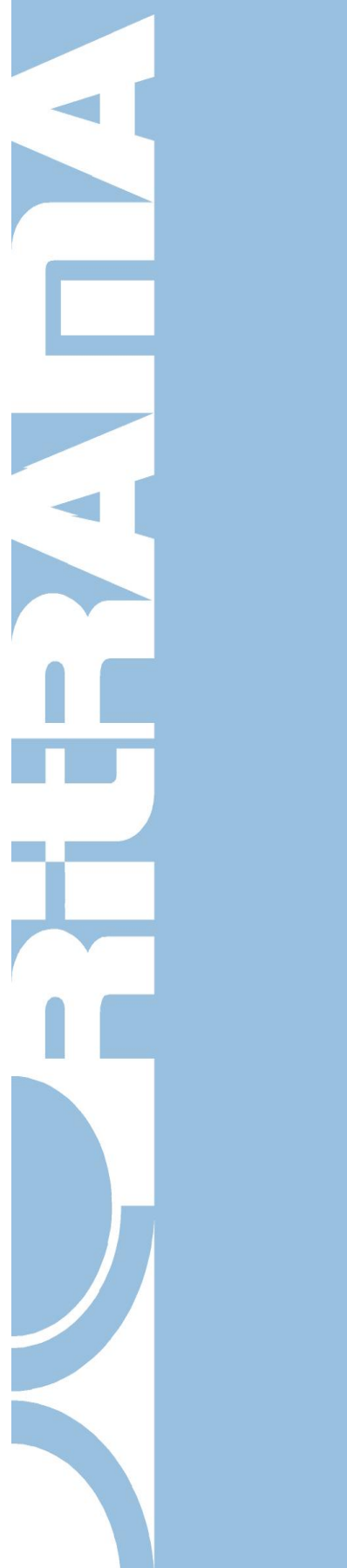
CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-10

Form 108-01 (1/99)





PRODUCT CODE: 3-4651

PRODUCT DESCRIPTION

3.5-mil Ultra Cling™ gloss white flexible vinyl featuring an ultra low peel removable adhesive that is designed for point-of-purchase displays, multiple color labels and decals, window decals, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Multi-color labels and decals
- Temporary product identification
- Point of purchase displays
- Window graphics

FEATURES AND BENEFITS

- Ultra low peel removable acrylic

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss white
Adhesive	ANP ultra low peel removable acrylic
Liner	89# printable layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	0.2 lbs./inch	0.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	6 month removability (depends on substrate applied to)	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	Slight Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	NA
10% Ammonium Hydroxide (10 min)	Slight Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	Noticeable Lifting

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.
Sep-09



PRODUCT CODE: 3-4724

PRODUCT DESCRIPTION

1.5 mil CS SERIES clear print-receptive polyester is an economical film that is ideal for general screen-printing, multiple color labels and decals, point of purchase displays, bumper strips and other identification pieces.

APPLICATIONS

- Bumper strips
- General screen printing
- Multiple color labels and decals
- Point of purchase displays
- Product identification

FEATURES AND BENEFITS

- 1.5 mil clear print-receptive polyester, permanent acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	1.5-mil polyester print-receptive
Color and Finish	Gloss clear
Adhesive	Permanent acrylic
Liner	90# polycoated layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	23 oz.	31 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Aug-98



PRODUCT CODE: 3-5151

PRODUCT DESCRIPTION

3.4-mil white flexible vinyl featuring an ultra low peel removable adhesive. Recommended for general screen printing. Designed for point stickers, identification pieces, promotional multi-color labels and decals, point of purchase displays and window graphics.

APPLICATIONS

- Children's stickers and game pieces
- Identification pieces
- Promotional multi-color labels and decals
- Point of purchase displays
- Window graphics

FEATURES AND BENEFITS

- Ultra peel removable acrylic

TECHNICAL DATA

Face Material	3.4-mil flexible vinyl
Color and Finish	Matte white
Adhesive	64 ultra low peel removable acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3 oz./inch	<u>24 hr.</u> 2 oz./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	Indoor use recommended Clean removability 6 month (depends on substrate applied to)	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	Slight Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	NA
10% Ammonium Hydroxide (10 min)	Slight Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	Noticeable Lifting

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.
Dec-09



PRODUCT CODE: 3-5188

PRODUCT DESCRIPTION

3.5-mil Advantage RI-Cling™ gloss white flexible vinyl featuring an ultra low peel removable adhesive. Recommended for general screen printing. Designed for point-of-purchase graphics, promotional multi-color labels and decals, window decals and other identification pieces.

APPLICATIONS

- General screen printing
- Multiple color labels and decals
- Point of purchase displays
- Product identification
- Window graphics

FEATURES AND BENEFITS

- 3.5 mil gloss white flexible vinyl, ultra low peel removable acrylic adhesive, 90# polycoated layflat liner.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss white
Adhesive	64 ultra low peel removable acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	3 oz./inch	2 oz./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	Indoor use recommended	
Clean removability	6 month (depends on substrate applied to)	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	Slight Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	NA
10% Ammonium Hydroxide (10 min)	Slight Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	Noticeable Lifting

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Dec-09



PRODUCT CODE: 3-5334

PRODUCT DESCRIPTION

3.5 mil Floor Talkers™ gloss white vinyl with FG low peel removable adhesive will remove cleanly from most floor surfaces. Combined with a 5 mil scuff resistant overlaminate and you have excellent product used for floor graphic advertising. Suitable for general screen printing and solvent inkjet printing. Notched cores are available upon request.

APPLICATIONS

- Floor graphic advertising
- General screen printing
- Solvent Inkjet printing

FEATURES AND BENEFITS

- UL-Recognized product: file number SA12057.

TECHNICAL DATA

Face Material	3.5 mil vinyl
Color and Finish	Gloss white
Adhesive	FG low peel removable
Liner	90# polycoated layflat bleached

TYPICAL CHARACTERISTICS

Target Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3 oz.	<u>24 hr.</u> 2 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-20°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Removability	6 months (depends on substrate applied to)	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	Slight Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Noticeable Lifting

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

June 05



PRODUCT CODE: 3-6962

PRODUCT DESCRIPTION

3.5-mil flexible vinyl is an intermediate vinyl with a grey blackout permanent adhesive. This film is designed for multiple color labels and decals, point of purchase displays, bumper stickers and other identification pieces. Notched cores available upon request.

APPLICATIONS

- Decorative trim
- Product identification pieces
- Two-way window
- Point of purchase displays

FEATURES AND BENEFITS

- Suitable for general screen printing and solvent inkjet printing.
- Has moderate conformable characteristics.

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	Gloss white
Adhesive	07G, grey pigmented permanent acrylic
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	40 oz.	52 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Sept-01

Form 108-01 (1/99)



PRODUCT CODE: 3-7078

PRODUCT DESCRIPTION

7.0-mil matte white vinyl is an intermediate vinyl with a removable adhesive. This film is designed for punched window graphics and other promotional graphics. The adhesive can be removed cleanly from most smooth surfaces for up to 6 months after application.

APPLICATIONS

- Promotional graphics
- Point of purchase displays
- Window graphics

FEATURES AND BENEFITS

- Compatible with various printing methods

TECHNICAL DATA

Face Material	7.0-mil flexible vinyl
Color and Finish	Matte white one side; black on the other
Adhesive	27, removable acrylic
Liner	90# polycoated bleached kraft

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	40 oz.	50 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Durability (ASTM G53)	5 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Sep-09

Form 108-01 (1/99)



PRODUCT CODE: 3-7172


PRODUCT DESCRIPTION

Enjoy the benefits of vinyl and polyester without the added cost. Economical and eco-friendly, Ritrama's eco film can be used for point of purchase graphics, decals, and outdoor signage. Because of its enhanced UV stability, the film features a 2-year outdoor durability. A print-receptive topcoat attracts UV inks.

APPLICATIONS

- Architectural graphics
- Multiple color labels and decals
- Outdoor signage
- Point of purchase displays
- Product identification
- Vending machines

FEATURES AND BENEFITS

- Environmentally friendly film 
- Economical
- Recyclable polypropylene
- Enhanced UV stability
- Outstanding die-cutting qualities

TECHNICAL DATA

Face Material	3.6-mil UV light stable topcoated polypropylene
Color and Finish	Gloss white
Adhesive	47, permanent acrylic
Liner	90# polycoated bleached kraft

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	30 oz.	40 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Outdoor Durability	2 years	
Shelf Life (@ 73°F, 50% RH)	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HC1 (10 min)	N/A
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline	Slight Lifting
Anti-Freeze (24 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-10


**PRODUCT CODE: 3-7173****PRODUCT DESCRIPTION**

Enjoy the benefits of vinyl and polyester without the added cost. Economical and eco-friendly, Ritrama's eco film can be used for point of purchase graphics, decals, and outdoor signage. Because of its enhanced UV stability, the film features 2-year outdoor durability. A print-receptive topcoat attracts UV inks. It also features outstanding die cutting qualities.

APPLICATIONS

- Architectural graphics
- Multiple color labels and decals
- Outdoor signage
- Point of purchase displays
- Product identification
- Vending machines

FEATURES AND BENEFITS

- Environmentally friendly film 
- Economical
- Recyclable polypropylene
- Outstanding die-cutting qualities

TECHNICAL DATA

Face Material	3.6-mil UV light stable topcoated polypropylene
Color and Finish	Gloss clear
Adhesive	Permanent acrylic
Liner	90# polycoated bleached kraft

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 30 oz.	<u>24 hr.</u> 40 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Outdoor Durability	2 years	
Shelf Life (@ 73°F, 50% RH)	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	N/A
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline	Slight Lifting
Anti-Freeze (24 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-10



PRODUCT CODE: 3-7995

PRODUCTION DESCRIPTION

3.0-mil matte white polypropylene film topcoated for use with a wide range of ink systems and print methods. Polypropylene films have many uses including product identification pieces two-way window decals and point of purchase displays.

APPLICATIONS

- Chemical drums
- General screen printing
- Multiple color labels and decals
- Product identification
- Point of purchase displays
- Thermal transfer labels

FEATURES AND BENEFITS

- 3.0-mil topcoated matte white polypropylene with 14 acrylic adhesive on a 90# polycoated lay flat liner.

TECHNICAL DATA

Face Material	3.0-mil polypropylene, topcoated
Color and Finish	Matte white
Adhesive	14 high-tack permanent acrylic
Liner	90# polycoated bleached kraft

TYPICAL CHARACTERISTICS

Average Adhesion Values (PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	<u>15 min.</u> 3.1 lbs./inch	<u>24 hr.</u> 4.5 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	
Outdoor Life	1 year	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HCl (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	Slight Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Feb-04



PRODUCT CODE: 3-9956

PRODUCTION DESCRIPTION

Ideal for short to mid term graphics, this matte white media product is an excellent choice for economical floor graphics applications. Printable via solvent, Eco-solvent and UV ink jet as well as conventional screen and UV offset, this media is excellent for use in retail, museum and trade show environments

APPLICATIONS

- Floor graphics

FEATURES AND BENEFITS

- Removable acrylic adhesive

TECHNICAL DATA

Face Material	3.4-mil flexible vinyl
Color and Finish	White matte
Adhesive	Ultra low peel removable acrylic, FT
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	0.2 lbs./inch	0.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	Slight Effect
Detergent (24 hr)	No Effect
10% Ammonium Hydroxide (10 min)	Slight Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	Noticeable Lifting



The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

Sep-07



PRODUCT CODE: 3-9957

PRODUCTION DESCRIPTION

Ideal for long term graphics, this gloss white media product is an excellent choice for floor graphics applications. Printable via solvent, Eco-solvent and UV ink jet as well as conventional screen and UV offset, this media is excellent for use in retail, museum, trade show and airport environments.

APPLICATIONS

- Floor graphics

FEATURES AND BENEFITS

- Removable acrylic adhesive

TECHNICAL DATA

Face Material	3.5-mil flexible vinyl
Color and Finish	White gloss
Adhesive	Ultra low peel removable acrylic, FT
Liner	90# polycoated bleached layflat

TYPICAL CHARACTERISTICS

Target Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	0.2 lbs./inch	0.1 lbs./inch
Minimum Application Temperature	50°F	
Service Temperature Range	-40°F to +180°F	
Shelf Life (@ 73°F, 50% RH)	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	Slight Effect
Detergent (24 hr)	No Effect
10% Ammonium Hydroxide (10 min)	Slight Effect
Anti-Freeze (24 hr)	No Effect
SAE 20 Motor Oil (24 hr)	No Effect
Gasoline (1 hr)	Noticeable Lifting



The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.
Sep-07



PRODUCT CODE: 4-0545

PRODUCT DESCRIPTION

The 2.0-mil topcoated brushed chrome polyester provides a unique look to your labels and decals. Polyester films have many uses including decorative trim, product identification pieces and point of purchase displays.

APPLICATIONS

- Decorative trim
- Product Identification
- Point of purchase displays

FEATURES AND BENEFITS

- Topcoated for use with a wide range of ink systems and print methods
- Licensed Air Flow Release Liner™ for reduced wrinkling and air bubbles

TECHNICAL DATA

Face Material	2.0-mil polyester topcoated
Color and Finish	Brushed chrome
Adhesive	1.3-mil 55 permanent acrylic
Liner	90# Licensed Air Flow Release Liner™

TYPICAL CHARACTERISTICS

Average Adhesion Values	<u>15 min.</u>	<u>24 hr.</u>
(PSTC-1, 180° peel @ 12"/min., 73°F, on Stainless Steel)	50 oz.	60 oz.
Minimum Application Temperature	50°F	
Service Temperature Range	-65°F to +225°F	
Shelf Life (@ 73°F, 50% RH)	1 year	
Outdoor Life	2 years	

CHEMICAL RESISTANCE

Distilled Water (24 hr)	No Effect
Detergent (24 hr)	No Effect
10% HC1 (10 min)	No Effect
10% Ammonium Hydroxide (10 min)	No Effect
Gasoline (1 hr)	No Effect

The above information is based on research believed to be reliable, but does not constitute a warranty. All material should be tested by the purchaser to determine suitability of the product for their purposes.

May-14