



TECHNICAL BULLETIN

R TAPE VINYLEFX™ FILMS DECORATIVE SERIES

DESCRIPTION

R Tape VinylEFX™ are metallized films, which are exceptionally suited for general purpose signage applications. This series of films resist most marring and staining. VinylEFX™ cut easily using computer plotter, steel rule or thermal die methods, guillotine shear or rotary blade cutters. The series offilms can be printed using vinyl screen print inks, thermal transfer systems, solvent-based ink jet printers and hot foil stamp devices.

Suitable for general purpose signage applications on clean, smooth, non porous flat surfaces. Some clear coats and automotive paints, which contain additives to repel dirt, grime, graffiti, etc., are problematic and not recommended for application.

PHYSICAL SPECIFICATIONS

FACE FILM	Extruded 65 µm rigid PVC metallized film.
ADHESIVE	Clear acrylic adhesive.
RELEASE LINER	88# Polycoated Kraft liner.
*ADHESION TO STEEL (N/25mm)	13 - 19 N/25mm
ELONGATION	~0 (due to extrusion process)
RELEASE VALUE	20 – 40 gr/in.
APPLICATION TEMPERATURE RANGE	16°C to 32°C
SERVICE TEMPERATURE RANGE	-22°C to 74°C.
THICKNESS	88µm (including adhesive; 65 µm PVC film, 23 µm acrylic adhesive)

Adhesion PSTC-1, 1 minute on stainless steel at time of manufacture.

FEATURES

- Up to 12 months outdoor durability. Some color fade, chalking and gloss reduction may occur.
- Should not crack, peel, blister or delaminate, when processed and installed in accordance with accepted industry practices and standards to vertical substrates.
- Not recommended for application to untreated metal, polyethylene and polypropylene surfaces.
- A limited number of gel spots is inherent in the vinyl extrusion process.
- The films come with an impression (a shim line) in the pattern, this is not a defect, but a byproduct of the manufacturing process.
- Resists many chemicals with intermittent contact (not submersion).
- Good dimensional stability with minimal shrinkage.
- One year shelf life, starting from the date of purchase, when stored properly, in an environment free from excessive humidity, temperature extremes and direct sunlight.
- Resists many chemicals with intermittent contact (not submersion).
- EDGE SEALING IS RECOMMENDED

WARRANTY

VINYLEFX™ FILMS ARE ONLY WARRANTED TO BE FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL AT TIME OF SHIPMENT. MANUFACTURER WILL REPLACE OR CREDIT ANY MATERIAL MANUFACTURER DEEMS DEFECTIVE. NO ACCEPTANCE OR RESPONSIBILITY FOR LOSS, DAMAGE, OR EXPENSE, IMPLIED OR OTHERWISE, SHALL BE ASSUMED BY SELLER OR MANUFACTURER. USER ASSUMES ALL RISK AND LIABILITY IN CONNECTION HEREWITH.

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R Tape Europe:

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STANDARD-WEIGHT SURFACE PROTECTION MASKING FOR WIDE FORMAT DIGITAL GRAPHICS

FACESTOCK

A standard weight saturated paper designed specifically as a surface protection masking for wide format digital solvent based printed graphics.

ADHESIVE

A ultra-low tack, solventless adhesive system designed for short- or long-term protection of large digital prints or vinyl graphics. Adhesion will not build over time and releases easily from the printed graphic upon removal of the surface protection material.

PHYSICAL SPECIFICATIONS	
Adhesive	Solventless
Color	White/Translucent
Tape Thickness (mils)	3.5 – 4.0 (89 – 102 microns)
*Adhesion to Steel (oz./in. width)	4 – 7 (4.3 – 7.7 N/100mm)
Tensile (lb./in.)	17 (297 N/100mm)
Elongation	3 - 4%
Tear Resistance (grams)	50

* Adhesion PSTC-1, 1 minute on stainless steel at time of manufacture.

FEATURES

- Excellent surface protection for wide format digital solvent based printed graphics.
- Affordable print protection to prevent costly rework.
- Unwinds easily for more user-friendly lamination and fewer in-shop mishaps.
- Removes easily without pulling overlaminates from the graphics or applied graphics from the substrate.
- Conform® Release Liner Adhesion reduces the risk of tunneling and lifting.

WARRANTY: *R Tape warrants our material for one (1) year from date of shipment. The shelf life of our material is dependent on storage conditions. We recommend that the end user store the material in the original boxes (out of direct sunlight) from our factory. We also recommend that our material be stored @ 21°C with 50% relative humidity. R Tape only warrants our products to be free from defects in workmanship or defects in R Tape material. We will replace or credit any material deemed defective. No acceptance or responsibility for loss, damage or expense implied or otherwise, shall be assumed by seller or manufacturer. User assumes all risk and liability in connection herewith.*



1st Choice for Quality and Value

Claritex technical datasheet

PROPERTIES			
Physical Properties	Unit	Test Method	Value
Physical			
Specific Gravity, 23°C	--	ASTM D-792	1.20
Melt Flow Index, 300°C, 1.2kg	G/10min.	ASTM D1248	5.0
Water Absorption, 24 hrs. 73°F	%	ASTM D-570	0.23-0.26
Mold Shrinkage	%	3mm thick, 100mm diam. disk	0.5-0.8
Optical			
Light transmission (3mm thick)	%	ASTM D-1003	85-89%
Refractive Index	%	ASTM D-542	1.585%
Mechanical			
Tensile Strength, yield, 0.125"	PSI (MPa)	ASTM D-638	8,750 (60)
Tensile Elongation, break, 0.125"	%	ASTM D-638	120
Flexural Strength, 0.125"	PSI (MPa)	ASTM D-790	12,325 (85)
Flexural Modulus, 0.125"	10X5 PSI (MPa)	ASTM D-790	3.3 (2,300)
Rockwell Hardness	R-Scale	ASTM D-785	122
Impact			
Izod Impact Str., Notched, 0125"	--	ASTM D-256	16.8 (900)
Thermal			
Heat Deflection Temp. @66PSI	°F (°C)	ASTM D-648	284 (140)
Heat Deflection Temp. @264PSI	°F (°C)	ASTM D-648	275 (135)
Flame Class			
Flammability	0.0625"	UL94	NB
Electrical			
Dielectric Strength	Volts/mil	ASTM D-149	508
Dielectric Constant 60Hz	--	ASTM D-150	2.850
Dielectric Factor 60Hz	--	ASTM D-150	.0082

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