



TECHNICAL BULLETIN

R TAPE **Vinylefx**[™] FILMS

CUSTOM COATED WITH 2 MILS OF ADHESIVE

DESCRIPTION	For special applications to textured surfaces, R Tape custom coats its Vinylefx [™] metallized films, with a 2 mil high performance adhesive. When applied with suitable pressure and at specified application temperatures, the heavy coating of adhesive flows over the peaks and into the valleys of the application surface. The conformability of the adhesive to the substrate minimizes any air pockets that could develop into channeling of the applied graphic. The heavy coating of the acrylic adhesive is also suitable for general purpose signage applications. Vinylefx [™] films, coated with two mils of adhesive, cut easily using computer plotter, steel rule or thermal die methods, guillotine shear or rotary blade cutters and do not exhibit any adhesive ooze at the edges of the graphic. Whether coated on the durable series or the decorative series of films, these custom-coated vinyls can be printed using vinyl screen print inks, thermal transfer systems, solvent-based ink jet printers and hot foil stamp devices.
FACE FILM	Extruded 3 mil rigid PVC metallized film.
ADHESIVE	2 mil permanent, clear acrylic adhesive.
RELEASE LINER	88# Polycoated Kraft liner.
OUTDOOR DURABILITY	Up to 5 year durability for Vinylefx [™] durable series; up to 12 month outdoor durability for Vinylefx [™] decorative series films. Vinylefx [™] should not crack, peel, blister or delaminate, when processed and installed in accordance with accepted industry practices and standards to vertical substrates. Some color fade, chalking and gloss reduction may occur within the stated period of durability.
APPLICATION SURFACE	The heavy coating weight of its high performance adhesive is designed specifically for applications to slightly textured substrates, but it is also suitable for general purpose signage applications on clean, smooth, nonporous, flat surfaces. Some clear coats and automotive paints, which contain additives to repel dirt, grime, graffiti, etc., are problematic and not recommended for application. Untreated low-energy surfaces, such as polyethylene and polypropylene, are not recommended for application. For information on special adhesive systems designed for these unique applications, call R Tape Corporation Customer Service. Metallized films, such as many reflectives, polyesters, and Vinylefx [™] films, are not recommended for application to untreated metal surfaces, because dissimilarity of metals can result in galvanic corrosion.

R Tape Corporation

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APPLICATION TEMPERATURE RANGE	60°F to 90°F. 16°C to 32°C
SERVICE TEMPERATURE RANGE	-30°F to 165°F. -22°C to 74°C.
THICKNESS	5.0 mils (including adhesive; 3 mil PVC film, 2 mil acrylic adhesive).
CHEMICAL RESISTANCE	Resists many chemicals with intermittent contact (not submersion).
PEEL ADHESION	50 oz/in. (PSTC-1; 180° peel, 15 min. dwell); 70 oz/in. (PSTC-1; 180° peel, 24 hr. dwell). Tested on stainless steel panels as standard substrate.
SHELF LIFE	One year from date of purchase, when stored properly, in an environment free from excessive humidity, temperature extremes and direct sunlight.
DIMENSIONAL STABILITY	Good. Minimal shrinkage.
WARRANTY	<p>Prior to production, the fabricator needs to determine the suitability of the raw materials for the intended application, including testing the compatibility of the material with the printing or decorating technique.</p> <p>Gels are inherent in the vinyl extrusion process. A limited number is generally regarded as commercially acceptable. To create the embossed texture on the second surface of R Tape's <i>Vinylefx</i>[™] film, a pattern is etched into a flat metal stamping die called a shim. This shim is wrapped around a cylinder. The point, at which the two ends of the flat plate meet, often creates an impression in the film called a "shim line". This is not a defect, rather an inherent byproduct of the manufacturing process. Take this line into consideration, in designing your graphics.</p> <p>Products 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.</p>

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