



# TECHNICAL BULLETIN

## R TAPE *Vinylefx*<sup>TM</sup> FILMS

<b>DESCRIPTION</b>	R Tape <b>VinyleFX</b> <sup>TM</sup> are metallized films, which are exceptionally suited for general purpose signage applications. Both series of films resist most marring and staining. <b>VinyleFX</b> <sup>TM</sup> cut easily using computer plotter, steel rule or thermal die methods, guillotine shear or rotary blade cutters. Both the durable series and the decorative series of films can be printed using vinyl screen print inks, thermal transfer systems, solvent-based ink jet printers and hot foil stamp devices.
<b>FACE FILM</b>	Extruded 3 mil rigid PVC metallized film.
<b>ADHESIVE</b>	Permanent, clear acrylic adhesive.
<b>RELEASE LINER</b>	88# Polycoated Kraft liner.
<b>OUTDOOR DURABILITY</b>	Up to 5 year durability for <b>VinyleFX</b> <sup>TM</sup> durable series; up to 12 month outdoor durability for <b>VinyleFX</b> <sup>TM</sup> decorative series films. <b>VinyleFX</b> <sup>TM</sup> 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.
<b>APPLICATION SURFACE</b>	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. 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 <b>VinyleFX</b> <sup>TM</sup> films, are not recommended for application to untreated metal surfaces, because dissimilarity of metals can result in galvanic corrosion.
<b>APPLICATION TEMPERATURE RANGE</b>	60°F to 90°F. 16°C to 32°C
<b>SERVICE TEMPERATURE RANGE</b>	-30°F to 165°F. -22°C to 74°C.
<b>THICKNESS</b>	4.0 mils (including adhesive; 3 mil PVC film, 1 mil acrylic adhesive.

**R Tape Corporation**

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<b>RELEASE VALUE</b>	20-40 grams per inch.
<b>CHEMICAL RESISTANCE</b>	Resists many chemicals with intermittent contact (not submersion).
<b>PEEL ADHESION</b>	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.
<b>SHELF LIFE</b>	One year form date of purchase, when stored properly, in an environment free from excessive humidity, temperature extremes and direct sunlight.
<b>DIMENSIONAL STABILITY</b>	Good. Minimal shrinkage.
<b>WARRANTY</b>	<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.</p> <p>To create the embossed texture on the second surface of R Tape's <b>VinylEFX</b><sup>TM</sup> 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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