Flexcon® PrismCal® DESIGN510

2.6 Mil Metallized Vinyl (DESIGN510), Permanent Adhesive, Printable Liner

FLX069629

Benefits

- High-performance pressure-sensitive acrylic adhesive bonds well to a variety of surfaces including foamboard, glass, high-surface energy plastics, wood, metal, paint and paper

Features

- 2.6 mil brilliant, eye-catching, light diffracting metallized vinyl film
- Available patterns: Rainbow, 1/4" Mosaic, Design #510, and Kaleidoscope
- Printable via UV and solvent screen, and UV inkjet (wide). Please test for ink adhesion with your specific ink chemistry
- Topcoatings available for compatibility with flexo and offset inks
- Backed with a 94 lb. premium grade liner with excellent layflat qualities and backside printability

Additional Details

Product Usage and Processing Recommendations: Processing temperature maximum: 160°F (70°C) 1. We do not recommend that this product be processed in dryers or UV curing units under excessive heat. Temperatures above 160°F may cause the diffraction pattern to become distorted. 2. Caution: Higher boiling solvents found in some printing inks can cause vinyls to distort. Please note: DESIGN510 pattern repeats every six inches (150mm), and the RAINBOW, MOSAIC, and KSCOPE patterns repeat every nine inches (230mm) in both the machine and transverse directions. The repeat is defined by a seam line. Sheet size determines where seams will be located on converted materials.

Technical Data

Physical Properties

Thickness (Mils [microns])	Mils	Microns
Total Product	10.15	
Film	2.6 +/- 10%	66
Adhesive	0.9-1.0 +/- 0.1 (3)	23-25
Liner	6.6 +/- 10%	168

Test Method: ASTM D 3652 (Modified for use with non-tape products)

Adhesion Properties

Ultimate Peel from	Average Oz/In	(N/m)
Acrylic	91	1001
Glass	92	1012
Stainless Steel	82	902
Polypropylene	64	704

Test Method: ASTM D 903 (Modified for 72 hour dwell time)

Additional Properties	Value	Test Method
Expected Shear (hours)		
Tack (g)	870	ASTM D 2979
Expected Exterior Life	Two years (vertical exposure, mid continental North America)	
Additional Information		
Service Temperature	-40°F to 176°F (-40°C to 80°C)	
Minimum Application Temperature	50°F (10°C)	
Storage Stability	Two years stored at 70°F (21°C) and 50% RH	

Product Performance and Suitability

Descriptive information, performance data, and recommendations for Flexcon products are guides and not specifications. Providing this information is to assist you and does not constitute a warranty of any kind by Flexcon.

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