

# Consumer Durables

## Print-Receptive Reflective White Polyester - Air Egress Sheet Form Liner

### **End Use Applications including:**

Component Tracking Labels  
Warning & Instructional Labels  
Outdoor Safety Signage  
Promotional Labels  
Long-range Barcode Labels  
Warehouse WIP Labels, Shelf Marking  
Supply Chain Management

**For more information on FLEXcon's pressure-sensitive film solutions for safety /visibility applications, contact your local Sales Representative or our Product Identification Business Team at (508) 885-8300.**

Product ID #: FLX069860



**Product:** FLEXcon® DPM Aply® 4RWPSAE  
(PM 400 White Reflective V-344 90 PFW Air Egress)

### **Benefits:**

- Print-receptive 4 mil reflective white polyester with glass bead reflective coating offers higher reflectivity and reflects from a longer distance than other reflective films
- Printable via thermal transfer, UV & solvent screen, and UV & solvent flexo
- Permanent pressure-sensitive acrylic adhesive bonds well to low- and high-surface energy plastics, painted metal, powder-coated paint, polycarbonate and fiberglass
- 90 lb. embossed liner creates air egress channels in the adhesive to eliminate bubbles and wrinkles during application process and post application process
- Liner is ideal for roll-to-sheet and sheet-form converting on most narrow-format presses

Please note: DPM Aply® with air egress liner is available for sale in North America only.



# FLEXcon® DPM Aply® 4RWPSAE (PM 400 White Reflective V-344 90 PFW Air Egress)

PRODUCT DATA	VALUE	TEST METHOD
<b>Physical Properties</b>		
Thickness (Mils[microns])	Film & Coating	4.0 (102) +/-15%
	Adhesive	1.2-1.3 (30-33) +/- 0.1 (3)
	Liner	6.8 (172) +/- 10%
Dimensional Stability (%)	MD	.50
	TD	.50
<b>Adhesion Properties</b>		
Ultimate Peel from	Average	ASTM D 903 (Modified for 72 hour dwell time)
	Oz/In (N/m)	
Acrylic	Film destructs during adhesion test	
Glass	Film destructs during adhesion test	
Polypropylene	Film destructs during adhesion test	
Stainless Steel	Film destructs during adhesion test	
<b>Expected Shear</b>		ASTM D 3654 Method A
Room Temp (hours)	5	a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
<b>Tack (gm/sq cm)</b>	580	ASTM D 2979
<b>Expected Exterior Life</b>	Two years	
<b>Service Temperature Range</b>	-40°F to 176°F (-40°C to 80°C)	
<b>Minimum Application Temperature</b>	50°F (10°C)	
<b>Storage Stability</b>	Two years stored at 70°F (21°C) and 50% RH	

Retroreflection		
Minimum Coefficient of Retroreflective Values (RA) (cd/lx/m <sup>2</sup> )		
Observation Angle	Entrance Angle	Retroreflection
0.2°	- 4°	90.0
0.2°	30°	30.0

"RA" essentially expresses the relationship:

$$\frac{\text{Light OUT (Retro)}}{\text{Light IN}} = \text{RA}$$

#### Units of Retroreflectivity Measurement - RA

Performance values for retroreflective sheeting are an expression of the ability of that material to retroreflect light at a particular set of observation and entrance angles. The number given tells how much light is retroreflected at that set of angles for a given unit of light falling on a given area of the material. Technically, it is termed the "Coefficient of Retroreflection," designated by the symbol RA, a/k/a retroreflectivity.

The technical meaning of the factors comprising retroreflectivity are candela per incident lux per square meter, often abbreviated to "cd/lx/m<sup>2</sup>." The important concept to understand, however, is that the RA is a ratio. It does not tell how bright the sheeting will be on a given object. Rather, it is simply its ability to return light to the source at that particular set of observation and entrance angles.

Due to the custom nature of this product, the data presented are based on three or less production runs. Sometimes the film rips during adhesion test.

#### Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.  
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