

Safety / Visibility Applications

Engineering Grade White Retroreflective - Roll Form

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

Custom colors available.

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 #: FLX054552



This image is an example of how FLEXcon products may be used

Product: REFLECTAmark[®] PM 400 White Reflective
V-344 50K-6

Benefits:

- 2 mil white polyester film with 2 mil glass bead reflective coating offers higher reflectivity and reflects from a longer distance than standard promotional grade film
- Printable via TTR, flexo and screen. Can be topcoated for additional print technologies (Including Digital and Conventional))
- Specialty colors available (PMS color match)
- Security features available
- Permanent pressure-sensitive acrylic adhesive bonds well to low- and high-surface energy plastics, metal, powder coated paint, paint, ceramic, paper/fiber, glass and fiberglass
- Backed with a 50 lb. bleached kraft release liner ideal for roll-form converting



REFLECTAmark[®] PM 400 White Reflective V-344 50K-6

PRODUCT DATA	VALUE	TEST METHOD
Physical Properties		
Thickness (Mils[microns])	Film & Coating	4.0 (102) +/-15%
	Adhesive	1.0-1.1 (25-28) +/- 10%
	Liner	3.1 (79) +/- 10%
Dimensional Stability (%)	MD	.50
	TD	.50
Adhesion Properties		
Ultimate Peel from	Average	ASTM D 903 (Modified for 72 hour dwell time)
	Oz/In (N/m)	
Acrylic	Film destructs during adhesion test	
	Film destructs during adhesion test	
Polypropylene	15 (165)	
Stainless Steel	Film destructs during adhesion test	
Expected Shear		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	25	
Tack (gm/sq cm)	660	ASTM D 2979
Expected Exterior Life	Two years	
Service Temperature Range	-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	

Retroreflection		
Minimum Coefficient of Retroreflective Values (RA) (cd/lx/m ²)		
Observation Angle	Entrance Angle	Retroreflection
0.2°	- 4°	70.0
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/m².” 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.

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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