

# MAPEPLAN® PVC FB

## FLEECEBACK PVC ROOFING MEMBRANE

### PRODUCT DESCRIPTION

Polyglass Mapeplan PVC FB Roofing Membrane is a premium, high-performance fleeceback thermoplastic membrane engineered for adhered roofing systems. Manufactured with top grade polyvinyl chloride (PVC) resins, reinforced with a durable polyester scrim and featuring a 5.5 oz polyester fleece backing, Polyglass Mapeplan PVC FB delivers exceptional strength, flexibility, and long-term weatherability. With built-in resistance to chemicals, UV exposure, and fire, the membrane provides reliable protection and a long service life. Its highly reflective white surface reduces building energy use, minimizes maintenance requirements, and supports green building initiatives.

### TYPICAL APPLICATIONS

- Ideal for reroofing applications, allowing installation over an existing roof using low-rise foam adhesive, helping avoid tear-off, reduce labor, and eliminate disposal costs
- Low-slope commercial roofing applications offering energy savings, chemical resistance, protection from grease contaminants, and improved indoor comfort
- Designed for projects that demand higher tear strength and puncture resistance, such as buildings located in hail-prone regions
- Hybrid PVC/Modified Bitumen multi-ply applications

### FEATURES AND BENEFITS

- Inherently fire-resistant with self-extinguishing properties, delivering superior fire performance
- Hot-air welded seams create a strong, monolithic watertight bond with a wide welding temperature window for improved reliability and reduced leak risk
- Resistant to aggressive chemicals making it ideal for airports, restaurants, manufacturing, and food-processing environments
- Offers resistance to ponding water, and color stability under intense UV exposure
- Highly reflective surface reduces cooling costs and the flexible formulation enables easy installation, even in low temperatures
- Fleece backing increases puncture resistance and wind uplift performance with approved adhesives, and provides a protection layer against rough/uneven surfaces.

### TECHNICAL DESCRIPTION\*

Physical Properties	ASTM Method	ASTM Value	Typical Performance	
			60 mil	80 mil
Overall thickness, min.	D751	0.045" (1.14 mm)	0.060" (1.52 mm)	0.080" (2.03 mm)
Thickness over scrim, min.	D7635	0.016" (0.40 mm)	0.019" (0.48 mm)	0.028" (0.71 mm)
Breaking strength, min.	D751 Grab Method	200 lbf/in (890 N)	200 lbf/in	
Elongation at break, min.	D751 Grab Method	15%	15%	
Seam strength, min.	D751 B-Tongue	75%	90%	
Retention of properties after heat aging:	D3045			
Breaking strength, min.	D751 Grab Method	90%	90%	
Elongation, min.	D751 Grab Method	90%	90%	
Tearing strength, min.	D751	45 lbf (200 N)	45 lbf (200 N)	
Low temperature bend	D2136	pass	-40°C (-40°F)	
Accelerated weathering test (cracking/crazing)	G155	none	none	
Linear dimensional change, max.	D1204	0.50%	0.50%	
Change in weight after immersion in water, max.	D570	± 3.0%	± 3.0%	
Static puncture resistance	D5602	pass	pass	
Dynamic puncture resistance	D5635	pass	pass	

\*The properties in this table are "as manufactured" unless otherwise noted.



### PRODUCT DATA\*\*

**Mapeplan PVC FB 60 mil - 10' width**  
 Thickness (Nominal).....60 mils (1.5 mm)  
 Roll Size ..... 10' x 90' (3 m x 27.4 m)  
 Rolls/Pallet..... 10

**Mapeplan PVC FB 80 mil - 10' width**  
 Thickness (Nominal).....80 mils (2 mm)  
 Roll Size ..... 10' x 75' (3 m x 22.9 m)  
 Rolls/Pallet..... 10

\*\*All values are nominal at time of manufacturing

### APPLICABLE STANDARDS

- ASTM D4434 Type III
- UL Classified
- FM Approved
- Florida Building Code
- CRRC Listed
- NEMO Certified



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### AVAILABLE COLORS

Mapeplan PVC FB is available in the following colors:  
 White (WH)      Grey (GR)      Tan (TA)

### CRRC PRODUCT LABEL (WHITE)

	<b>Rated Product ID #: 0616-0053</b>		
		<b>Initial</b>	<b>Aged</b>
	<b>Solar Reflectance</b>	<b>0.86</b>	<b>0.73</b>
	<b>Thermal Emittance</b>	<b>0.87</b>	<b>0.88</b>
<small>The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit <a href="http://coolroofs.org">coolroofs.org</a> for important information and disclaimers about CRRC rating conditions, requirements, and limitations.</small>			

**Solar Reflectance Index (SRI) – Initial: 108 • Aged: 90**

### APPLICATION INSTRUCTIONS

Mapeplan PVC FB membranes must be adhered over approved substrates using an approved Polyglass low-rise foam (LRF) adhesive or Mapeplan P VVB bonding adhesive. All side and end laps must be heat-welded and probed to ensure watertight seams. Refer to the Mapeplan PVC Technical Guide or contact Polyglass Technical Services for specific application requirements.

### PRODUCT CODES

#### Mapeplan PVC FB 60 mil - 10' width

- 7540936000 – White
- 7540936001 – Tan
- 7540936002 – Grey

#### Mapeplan PVC FB 80 mil - 10' width

- 7540236000 – White
- 7540236001 – Tan
- 7540236002 – Grey

### MANUFACTURING FACILITIES

- Fernley, NV
- Hazleton, PA
- Waco, TX
- Winter Haven, FL

### CORPORATE HEADQUARTERS

Polyglass U.S.A., Inc.  
 1111 West Newport Center Drive  
 Deerfield Beach, FL 33442  
[www.polyglass.us](http://www.polyglass.us)

General Line: (888) 410-1375  
 (954) 233-1330  
 Customer Service: (800) 222-9782  
 Technical Service: (866) 794-9659

**Questions?** [technical@polyglass.com](mailto:technical@polyglass.com)

**Product Disclaimer:** Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 1 year.

Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances.

Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data and warranty information, visit [www.polyglass.us](http://www.polyglass.us).



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