

MAPEPLAN® PVC

PVC ROOFING MEMBRANE MINIMUM THICKNESS

PRODUCT DESCRIPTION

Polyglass Mapeplan PVC Roofing Membrane Minimum Thickness is a premium, high performance thermoplastic membrane engineered for both mechanically attached and adhered roofing systems. Manufactured with top-grade polyvinyl chloride (PVC) resins and reinforced with a durable polyester scrim, Polyglass Mapeplan PVC Minimum Thickness 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

- Low-slope commercial roofing applications offering energy savings, chemical resistance, protection from grease contaminants, and improved indoor comfort
- Industrial facilities where exposure to chemicals, ozone, and UV radiation demands superior durability
- Large roof areas where sheets up to 120" wide can lower labor and material costs

FEATURES AND BENEFITS

- Guaranteed minimum thickness: Meets rigorous specification criteria.
- 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.

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) min.	0.080" (2.03 mm) min.
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. Elongation, min.	D751 Grab Method D751 Grab Method	90% 90%	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 MT 60 mil - 5' width
 Thickness (Minimum)60 mils (1.5 mm)
 Roll Size5' x 100' (1.5 m x 30.5 m)
 Rolls/Pallet..... 9

Mapeplan PVC MT 60 mil - 10' width
 Thickness (Minimum)60 mils (1.5 mm)
 Roll Size10' x 100' (3 m x 30.5 m)
 Rolls/Pallet..... 9

Mapeplan PVC MT 80 mil - 5' width
 Thickness (Minimum)80 mils (2 mm)
 Roll Size5' x 80' (1.5 m x 24.4 m)
 Rolls/Pallet..... 9

Mapeplan PVC MT 80 mil - 10' width
 Thickness (Minimum)80 mils (2 mm)
 Roll Size10' x 80' (3 m x 24.4 m)
 Rolls/Pallet..... 9

**All values except thickness are nominal at time of manufacturing

APPLICABLE STANDARDS

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



POLYGLASS



www.polyglass.us

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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)

	Rated Product ID #: 0616-0053		
		Initial	Aged
	Solar Reflectance	0.86	0.73
	Thermal Emittance	0.87	0.88
<small>The ratings above are subject to CRRC rating program conditions, requirements, and limitations. Visit coolroofs.org 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 membranes may be installed over approved substrates by mechanical attachment, induction welding, or full adhesion. For adhered applications, use Mapeplan P WB or Mapeplan P SB 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 MT 60 mil - 5' width

- 7541436000 – White
- 7541436001 – Tan
- 7541436002 – Grey

Mapeplan PVC MT 60 mil - 10' width

- 7541436003 – White
- 7541436004 – Tan
- 7541436005 – Grey

Mapeplan PVC MT 80 mil - 5' width

- 7541136000 – White
- 7541136001 – Tan
- 7541136002 – Grey

Mapeplan PVC MT 80 mil - 10' width

- 7541136003 – White
- 7541136004 – Tan
- 7541136005 – 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

General Line:

(888) 410-1375

(954) 233-1330

Customer Service:

(800) 222-9782

Technical Service:

(866) 794-9659

Questions? 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.



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