

Product Data Sheet

FLEX FB 80 TPO PLUS ROOF MEMBRANE (FLEECE BACKED, REINFORCED, THERMOPLASTIC POLYOLEFIN MEMBRANE)

PRODUCT DESCRIPTION

The Flex FB 80 TPO Plus polyester reinforced thermoplastic polyolefin (TPO) fleece backed roofing membranes are designed for use in new or re-roofing roofing systems. The Flex FB 80 TPO Plus membranes are manufactured in widths of 5' and 10'x 50' for economical installations. Flex FB 80 TPO Plus membranes offer the proven weathering resistance of rubber (derived from its high ethylene propylene rubber content) combined with the thermoplastic properties of polypropylene. The combination results in a roofing membrane with hot air welded seams and the durability of EPDM roofing membranes. The Flex FB 80 TPO Plus membranes polyester reinforcement allows for structural movement with no splitting or cracking. The combination of the reinforcing scrim, fleece backing and the TPO membrane provide Flex FB 80 TPO Plus membrane with high breaking strength, tearing strength and puncture resistance. The specially formulated membrane offers excellent resistance to solar UV and chemical exposure as well as remaining flexible in cold temperatures.

USE

Flex FB 80 TPO Plus membranes can be installed in new, re-roof (tear-off) and recover roof constructions. In recover construction, if the existing roof is structurally acceptable, the Flex roof system can save the cost of disposing of the original roof system. Flex FB 80 TPO Plus membranes can be installed adhered directly over layers of approved roof board insulation or cover boards. The Flex FB 80 TPO Plus membrane may also be secured to the deck using an approved mechanically fastened system utilizing methods that have been independently tested for wind uplift. The Flex FB 80 TPO Plus membranes are true thermoplastics; therefore all seams are sealed by the hot air welding method creating a seam as strong as the original membrane.

FEATURES

- Excellent low temperature impact resistance
- No Halogenated Flame Retardants
- Plasticizer Free Chlorine Free
- Recyclable environmentally friendly product
- Chemically resistant to acids, bases and restaurant exhaust emissions
- Available in White, Gray or Tan
- White and Tan Flex TPO Plus FB Membranes are LEED™ Qualified
- White and Tan Flex TPO Plus FB Membranes are Energy Star® roof products

INSTALLATION

The roofing system must be installed by an authorized Flex Roofing Systems TPO applicator. The Flex applicator must inspect the area to be roofed to determine if the installation of a Flex Roof System is acceptable. The substrate must be clean, smooth, dry, and free of flaws, debris and other irregularities. Follow Flex Specifications and NRCA recommendations for installation of wood nailers around perimeters and penetrations. Install approved insulation according to Flex's standard fastening requirements or

applicable code, whichever is more stringent. The membrane is mechanically attached using the disk and fastener in the seam method. Fastener spacing increments are determined by the projects specification criteria and or printed guide specifications. For adhered systems, the membrane is laminated to the appropriate substrate using Flex Fleece Back Substrate Adhesive. All seams are completed by the hot air welding method. Contact the Flex Technical Service Department for the specific design requirements and installation procedures for these two systems.

PHYSICAL PROPERTIES

Test Procedure	Specification
	white, tan or gray
	5'x50', 10'x50'
	10'x 50 ' roll = 232 lbs.
	5'x 50 ' roll = 116 lbs.
ASTM D751	0.080"
ASTM D751	0.0314"
ASTM D751	440 x 390
ASTM D751	155
ASTM D751	30%
ASTM D573	100%
ASTM D573	60 weeks
ASTM D751	100 x 180
FTM 101C Method 2031	>380 lbs.
ASTM D2137	-40° C Pass
ASTM D1204	0.4%
ASTM D471	0.7%
ASTM D1149	Pass
ASTM G155	>25,000 Kj/m²
ASTM E96	0.08 perms
ASTM D751	430 psi
ASTM C1549	0.76
ASTM C1371	0.90
ASTM E1980	94
	ASTM D751 ASTM D751 ASTM D751 ASTM D751 ASTM D751 ASTM D751 ASTM D573 ASTM D573 ASTM D751 FTM 101C Method 2031 ASTM D2137 ASTM D1204 ASTM D471 ASTM D471 ASTM D1149 ASTM G155 ASTM E96 ASTM D751 ASTM C1549 ASTM C1549

Flex FB 80 TPO Plus membranes meet or exceed the requirements of ASTM 6878 Standard Specification for Thermoplastic Polyolefin (TPO) Based Sheet Roofing.

WARRANTY

The Flex TPO FB 80 Roofing Membrane may receive the manufacturers standard five (5) year or optional ten (10) year, fifteen (15) year, twenty (20) year, twenty-five (25) year, or thirty (30) year guarantee of watertightness.

Flex Membrane International Corp. 5103A Pottsville Pike, Reading, PA 19605

www.FlexRoofingSystems.com

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Fax: (610) 916-9501

Tel: (610) 916-9500