



FLEX FB 60 MINIMUM TPO PLUS ROOF MEMBRANE **(FLEECE BACKED, REINFORCED THERMOPLASTIC POLYOLEFIN MEMBRANE)**

PRODUCT DESCRIPTION

Flex FB 60 minimum 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 60 minimum TPO Plus membranes are manufactured in 60 mil nominal thickness and in widths of 5' and 10'x 100' for economical installations. Flex FB 60 minimum 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 60 minimum 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 60 minimum 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 60 minimum 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 60 minimum TPO Plus membranes can be installed adhered directly over layers of approved roof board insulation or cover boards. The Flex FB 60 minimum 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 60 minimum 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 CRRC approved 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, 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. All non-factory cut edges must be sealed with Flex Clear TPO Cut-Edge Sealant. Contact the Flex Technical Service Department for the specific design requirements and installation procedures for these two systems.

PHYSICAL PROPERTIES

Property	Test Procedure	Specification
Color		white, gray or tan
Roll Size		5'x100', 10'x100'
Weight		10'x100' roll = 350 lbs. 5'x100' roll = 175 lbs.
Thickness	ASTM D751	0.060" minimum
Thickness over scrim	ASTM D751	0.0221"
Breaking Strength (lbf)	ASTM D751	400 x 360
Seam Strength (lbf)	ASTM D751	145
Elongation (min%)	ASTM D751	30%
Heat Aging	ASTM D573	100%
Heat Aging	ASTM D573	60 weeks
Tear Strength (lbf)	ASTM D751	70 x 130
Puncture Resistance	FTM 101C Method 2031	>380 lbs.
Cold Brittleness	ASTM D2137	-40° C Pass
Dimensional Change	ASTM D1204	0.4%
Water Absorption	ASTM D471	0.7%
Ozone Resistance	ASTM D1149	Pass
Weather Resistance	ASTM G155	>25,000 KJ/m ²
Permeance	ASTM E96	0.08 perms
Hydrostatic Resistance	ASTM D751	430 psi
Reflectivity (white)	ASTM C1549	0.76
Emissivity (white)	ASTM C1371	0.90
SRI (solar reflectance index)	ASTM E1980	94

Flex 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 60 MINIMUM Roofing Membrane may receive the manufacturers standard five (5) year or optional ten (10) year, fifteen (15) year or twenty (20) year guarantee of watertightness.