

Texalón MP 1.14

GENERAL

Texsalon MP membrane is a heat-weldable single-ply thermoplastic polyolefin (TPO) sheet designed for new roof construction and reroofing applications. Texsalon MP membrane is formulated with additional flame retardant (compared to Standard) for higher slope fire code approvals. Sure-Weld membrane is based on advanced polymerization technology that combines the durability and weatherability of ethylene-propylene (EP) rubber with the heat weldability of polypropylene. The membrane is specifically formulated for long-term weather resistance without the use of either polymeric or liquid plasticizers.

Physical properties of the membrane are enhanced by a strong, polyester fabric that is encapsulated between the TPO based top and bottom plies. The combination of the fabric and TPO plies provide Sure-Weld reinforced membranes with high breaking strength, tearing strength and puncture resistance. The relatively smooth surface of Texsalon membrane produces a total surface fusion weld that creates a consistent, watertight monolithic roof assembly.

Texsalon MP products are available in white (highly reflective), tan and gray 45-mil nominal thicknesses. Special colors are also available and can duplicate most paint colors with a 6-8 week lead time. Available widths are 4, 5 and 6 ft perimeter sheets and 8, 10 and 12 ft field sheets. The membrane is environmentally friendly and safe to install.

Texsalon MP tan and white TPO membranes are LEEDTM (Leadership in Energy and Environmental Design) compliant. The U.S. Green Building Council (USGBC) designed the LEED Green Building Rating System. Tan and white Sure-Weld are ENERGY STAR and California Title 24 rated roof products. Reinforced Sure-Weld membrane is also available in 6" widths for use as reinforced flashing. This product is typically used for stripping in rows of fasteners and plates or to complete butt splices on FleeceBACK TPO membrane systems.

FEATURES

- Wide window of weldability.
- Outstanding puncture resistance.
- Chlorine-free with no halogenated flame retardants.
- Plasticizer-free, does not contain liquid or polymeric plasticizers.
- Excellent low temperature impact resistance.
- Excellent chemical resistance to acids, bases, and restaurant exhaust emissions.
- Exceptional resistance to solar UV, ozone, and oxidation.
- Low water vapor permeance and water absorption.
- Hot melt extrusion processed for complete scrim encapsulation.
- Warp knitted fabric (not woven) for smooth surface and greater thickness-over-scrim.
- Polyester reinforcing fabric which is resistant to degradation by bacteria, mildew and fungi.
- Consistent color with Special Colors available.
- Sure-Weld is 100% recyclable.

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CAUTIONS AND WARNINGS

- Sunglasses which filter out ultraviolet light are strongly recommended since tan and white surfaces are highly reflective to sunlight. Roofing technicians should dress appropriately and wear sunscreen to protect skin from the sun.
- Surfaces may promote slippery conditions due to frost and ice build-up. Exercise caution during cold conditions to prevent falls.
- Care must be exercised when working close to a roof edge when surrounding area is snow covered as the roof edge may not be clearly visible.
- Use proper stacking procedures to ensure sufficient stability of the rolls.
- Exercise caution when walking on wet membrane. Membranes may be slippery when wet.
- Store Texsalon membrane in the original undisturbed plastic wrap in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. Sure-Weld membrane that has been exposed to the weather for approximately 7 days or longer must be prepared with Weathered Membrane Cleaner prior to hot air welding.

INSTALLATION

Texsalon Roofing Systems are fast to install since minimal labor and few components are required. The systems may be installed utilizing labor-saving devices that make sheet welding fast, clean, consistent, and easy to learn, while reducing strain on the roofing technician.

Mechanically-Fastened Roof System installation starts with the insulation fastened with a minimum of 5 fasteners per 4 by 8 ft. board. Texsalon reinforced membrane is mechanically fastened to the deck. Adjoining sheets of Texsalon membrane are overlapped over the fasteners and plates and joined together with a minimum 1-1/2 inch (4 cm) wide hot air weld.

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TYPICAL PROPERTIES AND CHARACTERISTICS			
Physical Property	Test Method	Property Of Unaged Sheet	Property After ASTM D573 aging ¹ 28 days @ 240 °F
Tolerance on Nominal Thickness, %	ASTM D 751	± 10	
Thickness Over Scrim, min, in. (mm)	ASTM D 6878 Optical Method (avg. of 3 areas)	0.015 (0.381) ± 10%	
Breaking Strength, lbf (kN)	ASTM D 751 Grab Method	225 (1.0) min. 45-mil 320 (1.4) typical 45-mil	225 (1.0) min. 45-mil 320 (1.4) typical 45-mil
Elongation at break of fabric, %	ASTM D 412	25 typical	25 typical
Tearing Strength, lbf (N) 8 by 8 in. specimen	ASTM D 751 B Tongue Tear	55 (245) min. 130 (578) typical	55 (245) min. 130 (578) typical
Brittleness point, °F (°C)	ASTM D 2137	-40 (-40) max. -50 (-46) typical	
Linear Dimensional Change (shrinkage), % After 6 hours at 158 °F (70 °C)	ASTM 1204	± / -0.5 max. - 0.2 typical	
Ozone resistance, 100 pphm, 168 hours	ASTM D 1149	No Cracks	No Cracks
Resistance to water absorption After 7 days immersion 158 °F (70 °C) Change in mass, %	ASTM D 471 (top surface only)	4.0 max. 2.0 typical	
Resistance to microbial surface growth, rating (1 is very poor, 10 is no growth)	ASTM D 3274 2 yr S. Florida	9-10 typical	
Field seam strength, lbf/in. (kN/m) Seam tested in peel	ASTM D 1876	25 (4.4) min. 60 (10.5) typical	
Water vapor permeance, Perms	ASTM E 96	4.0 max. 2.0 typical	
Puncture resistance, lbf (kN) (see supplemental section for additional puncture data)	FTM 101C Method 2031	250 (1.1) min. 45-mil 325 (1.4) typical 45-mil	
Resistance to xenon-arc weathering ² Xenon-Arc, 17,640 kJ/m ² total radiant exposure, visual condition at 10X	ASTM D 4637 0.70 W/m ² 80 °C B.P.T.	No Cracks No loss of breaking or tearing strength	

¹ Aging conditions are 28 days at 240 °F (116 °C) equivalent to 400 days at 176 °F (80 °C) for breaking strength, elongation, tearing strength, ozone and puncture resistance

² Approximately equivalent to 14,000 hours exposure at 0.35 W/m² irradiance B.P.T. is black panel temperature.