



STEVENS **EP-XL** **TPO Roofing Membrane**



High Performance Roofing Systems for Maximum Rooftop Protection and Durability

Stevens EP-XL membrane is the newest member of the Stevens EP™ family of TPO (Thermoplastic Polyolefin) membranes from Dow Roofing Systems. It is a nominal 80 mil (2 mm) thick membrane that is designed to provide maximum rooftop performance and durability.

Our configuration provides a thick membrane with superb puncture resistance and the thickest over scrim coverage in the TPO industry!

Stevens EP-XL is Ideal for Schools, Hospitals, and Commercial Applications

Whenever your building requires extra protection or the value-added benefits that a thicker material provides, Stevens EP-XL is the ideal solution.

Stevens EP-XL is available in energy efficient white, and is packaged on rolls 76.5-in. wide x 75-ft. long. This provides 450 square feet of coverage per roll, a huge labor savings when compared to most modified bitumen systems. Custom roll lengths of up to 100', in one-foot increments, are also available from Stevens.

Installation Options

Stevens EP-XL can be installed using a wide variety of installation methods, including:

- Mechanical Attachment
- Fully Adhered
- Vented Roofing Systems (VRS)
- Paver Ballasted
- GardenTop™
- Stone Ballasted



ROOFING SYSTEMS

Stevens EP-XL can be installed using all the standard Dow Roofing Systems details and with all the standard Stevens components, such as pre-molded corners, pipe boots, vent gloves, walkway rolls, Stevens insulation, fasteners and plates, Stevens Edge Metal Systems, etc.



UL and FM Requirements

Stevens EP-XL membrane has achieved Underwriters Laboratory Class A fire resistance classifications (UL 790) at slopes up to one-inch over most polyisocyanurate insulation and unlimited slope over gypsum. Consult the current *UL Roofing Materials & Systems Directory*.

In addition, mechanically attached Stevens EP-XL has achieved Factory Mutual Windstorm Classification Ratings of 1-60, 1-90, 1-120, 1-135, 1-150, and 1-195. Consult the current *FM Approval Guide* for complete details or call the Dow Roofing Systems Technical Department at (877) 788-8324.

Energy Efficient and Green

Stevens EP-XL membranes are manufactured without any chlorinated components or plasticizers which makes it ideally suited for applications where environmental issues are a concern.

Stevens EP-XL membranes are highly reflective, and meet the guidelines for the EPA ENERGY STAR® Roof Products Program and is well suited for use in vegetative roof assemblies. Stevens EP-XL membrane can also help designers to qualify for points in the U.S. Green Building Council's LEED® Program.

Stevens EP-XL Physical Properties		
Physical Property	Test Method	Typical Value 80 mil*
Thickness over Scrim	Optical Method	0.034-in. (0.963 mm)
Breaking Strength	ASTM D-751	390 lbf. (1.7 kN)
Tear Strength	ASTM D-751 (Procedure B, 8"x8" sample)	104 lbf. (.46 kN)
Dimensional Stability (% change max.)	ASTM D-6878 (white 6 hrs. @ 158°F/70°C)	±0.2
Hydrostatic Resistance	ASTM D-751 (Method A)	510 psi (3.52 MPa)
Ozone Resistance**	ASTMD-1149 (70 hrs. @ 100°F/37.8°C)	Pass
Weather Resistance	Xenon Arc, ASTM D-6878 G-155; 5040 kJ/m ² 0.35w/m ² @ 340 nm	No cracks, loss of breaking strength or tear strength
	EMMAQUA (Concentrated Natural Sunlight) (ASTM G-90) 167 MJ/m ² total UV radiant exposure	Pass
Puncture Resistance	FTM 101B (Method 2031)	500 lbf. (2.2 kN)
Water Vapor Transmission	ASTM E-96 (Procedure B Condition BW @ 72°F/22.2°C)	0.035 Perms
Elongation (%) Ultimate**	ASTM D-412 (Die C)	700%
Brittleness	ASTM D-2137 @ -49°F/-45°C	Pass
Water Absorption (max % weight change)**	ASTM D-6878 D-471, (158°/70°C for 7 days) Testing only one side section	±3
Heat Aging	ASTM D-6878 D-573 (28 days @ 240°F/115°C)	Break: 350 lbf. (1.56 kN)
Solar Reflectance (initial)	ASTM E-903	>70%
Thermal Emittance	ASTM E-408	>0.93

*Thickness (nominal) per ASTM D-751 test method. **Test performed on non-reinforced Stevens EP™ membrane.

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**Dow Roofing Systems is an
ISO 9001 Certified Facility.**

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