



InnoviTPO™ | 45-Mil Single-Ply Membrane

Stock # 60XX060, 60XX170, 60XX173

Rolls Per Pallet: 10

Thickness: 45 mil; 0.045 in.; 1.14 mm

Weight: 0.23 lb./ft.² (1.1 kg/m²)

Colors: White, Grey

Roll Sizes:

- 5 ft. x 100 ft. (1.5 m x 30.5 m)
- 6 ft. x 100 ft. (1.9 m x 30.5 m)
- 8 ft. x 100 ft. (2.4 m x 30.5 m)
- 10 ft. x 100 ft. (3.0 m x 30.5 m)
- 12 ft. x 100 ft. (3.8 m x 30.5 m)

Note: Grey and Tan lead times are subject to product availability; volume minimums are required.

All reported values are nominal.

Performance Innovation

IKO has optimized the ideal product weathering chemistry, bringing the future of roofing technology to the commercial rooftop. Designed with the proprietary **Matrix™** weathering formulation, IKO InnoviTPO continues to reinforce IKO's reputation for performance innovation. Matrix's exceptional weathering chemistry makes InnoviTPO highly durable and able to withstand harsh climate conditions. It is exceptionally resistant to ultraviolet and infrared radiation, ozone and mold.

Energy Efficient

As a highly reflective "cool roof" membrane, IKO InnoviTPO is an ideal choice for specifiers designing in environments that demand maximum energy efficiency. Additionally, TPO is chlorine-free, and the IKO manufacturing process is designed to result in net zero waste of the TPO product itself.

Ease of Installation

IKO InnoviTPO is flexible and has excellent lay-flat characteristics, greatly enhancing the installation process. Contractors especially value the exceptional weldability within wide temperature windows, allowing more scheduling and application options.

- Meets or exceeds the requirements of ASTM D6878.
- Exceptional Weathering Chemistry.
- Outstanding Energy Efficiency.
- Optimum Weld Window.

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IKO InnoviTPO meets or exceeds the requirements of ASTM D6878 which measures top-ply thickness over scrim, elongation, breaking and tearing strength and linear dimensional change.

Installation:

1. Substrates must be clean, dry, smooth and free of sharp edges, fines, loose or foreign materials, oil, grease and all other materials that could damage the membrane.
2. All rough surfaces that can damage the membrane shall be repaired to provide a smooth substrate.
3. All surface voids greater than a 1/4-inch (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. IKO InnoviTPO membrane should be installed as a continuous roofing or waterproofing layer on the roof. Rolls must be overlapped (side laps and end laps) prior to heat-welding the seam areas.
5. IKO InnoviTPO membrane should be installed in accordance with current IKO specifications, details and technical requirements, as found at www.iko.com/comm.

Storage: Store membrane rolls in their original packaging and pallets, in a cool, dry area. Do not stack more than two pallets high.

Physical Properties

PROPERTY	UNITS	TEST METHOD	ASTM D6878 SPECIFICATION	IKO INNOVI 45-MIL TYPICAL PERFORMANCE
Nominal Thickness, min.:	in. (mm)	ASTM D751	0.039 (1.0)	0.046 (1.1)
Thickness Over Scrim, min.:	in. (mm)	ASTM D7635	0.015 (0.38)	0.016 (0.40)
Breaking Strength, min. (MD/XD):	lbf (N)	ASTM D751, Grab Method	220 (979)	275/275 (1223/1223)
Elongation at Break, min. (MD/XD):	%	ASTM D751, Grab Method	15	30/30
Tearing Strength, min. (MD/XD):	lbf (N)	ASTM D751	55 (245)	60/80 (266/356)
Brittleness Point:	°F (°C)	ASTM D2137	-40 (-40)	Pass
Ozone Resistance:	n/a	ASTM D1149	No Cracks, 7x	Pass
Linear Dimensional Change, max.:	%	ASTM D1204	± 1	< 0.1
Water Absorption, max.:	%	ASTM D471	± 3	1.7
Factory Seam Strength min.:	lbf (N)	ASTM D751	66 (290)	> 66 (290)
Water Vapor Permeance:	Perm (ng/pa·s·m²)	ASTM E96	n/a	< 0.1 (< 6)
Air Permeance:	L/(s·m²)	ASTM E2178	n/a	< 0.20
Static Puncture Resistance:	lbf (N)	ASTM D5635	n/a	Pass
Dynamic Puncture Resistance:	lbf (N)	ASTM D5635	n/a	Pass
Fungi Resistance:	n/a	ASTM G21	n/a	No growth

Physical Properties after heat aging

Weight change (mass), max.:	%	ASTM D471	± 1.5	≤ 0.50
Breaking Strength, % of control, min. (MD/XD):	%	ASTM D751, Grab Method	90	> 90
Elongation at Break, % of control, min. (MD/XD):	%	ASTM D751, Grab Method	90	> 90
Tearing Strength, % of control, min. (MD/XD):	%	ASTM D751, Grab Method	60	> 60

Physical Properties after weathering

Weather Resistance:	kJ/m²	ASTM G155	10,800	Pass
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Radiative Properties

			WHITE	GREY
Solar Reflectance - initial:	n/a	ASTM C1549/E903	0.78	0.55
Solar Reflectance - 3 year aged:	n/a	ASTM C1549/E903	0.73	0.53
Thermal Emittance - Initial:	n/a	ASTM C1371/E403	0.89	0.91
Thermal Emittance - 3 year aged:	n/a	ASTM C1371/E403	0.88	0.91
Solar Reflectance Index (SRI) - Initial:	n/a	ASTM E1980	97	66
Solar Reflectance Index (SRI) - 3 year aged:	n/a	ASTM E1980	90	63

LEED Information

PROPERTY	TYPICAL VALUES
Pre-Consumer Recycled Content:	5%
Post-Consumer Recycled Content:	0%
Manufacturing Location:	Hagerstown, MD, USA
Initial SRI - White:	97
Initial SRI - Grey:	66

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