

Meets or exceeds the requirements of ASTM D 6878

Features and Components

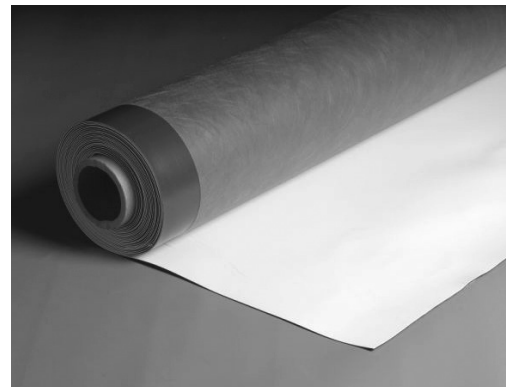
Integral Polyester Fleece Backing: In-line application of heavy fleece allows for stronger bond for polyester backing that gives flexibility and outstanding membrane protection for hot applied asphalt adhered systems.

One of the Widest Melt Windows: Promotes better welds over a wider variety of speeds and temperatures, and leads to a softer, more flexible and workable sheet.

Reinforced fabric scrim layer and top-ply thickness: Lends to durable physical properties including:

- Long-term weathering, UV resistance and heat-aging properties
- High breaking and tearing strength

Optimized TPO formulation: delivers high-performance ozone resistance, cool roof reflectivity and overall weather resistance.



Component

M
Membrane

Type

FB
Fleece Back
Single Ply

Colors

White

System Compatibility This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS				
	HA	CA	CA	HW	HA	CA	HW	SA	MF
Compatible with the selected multi-ply systems above									

Single Ply	TPO				PVC			EPDM		
	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
Compatible with the selected single ply systems above										

Key: HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened IW = Induction Weld BA = Ballasted AD = Adhered

Energy and the Environment

Standard		Reflectivity	Emissivity
CRRC®	White	Initial	0.77
		3 Yr. Aged	0.70
CA Title 24	White	Pass	0.77
			0.87
LEED® (SRI)	White	Initial	95
		3 Yr. Aged	85
Recycled Content	Post-consumer		0%
	Post-industrial		5%

The LEED® Solar Reflectance Index (SRI) is calculated per ASTM E1980.

Peak Advantage® Guarantee Information

Product	Guarantee Term
JM TPO FB 175	15, 20, 25, or 30 years

Codes and Approvals



Installation/Application



Refer to JM TPO application guides and detail drawings for instructions. This membrane is approved for hot asphalt application only.

Packaging and Dimensions

Roll Width	10' (3.05 m)
Roll Length	50' (15.24 m)
Roll Coverage	500 ft² (46.45 m²)
Rolls per Pallet	8
Pallet Weight	2,114 lb (958.9 kg)
Pallets per Truck*	16
Producing Location	Scottsboro, AL

*Assumes 48' flatbed truck and does not reflect pallets of accessories or impact of mixed sizes.

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the web at www.jm.com/roofing. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with the regional sales representative nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville roofing products and systems, visit www.jm.com/terms-conditions.

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Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6878 (Min.)	JM TPO – FB 175 ¹	
				MD*	XMD**
Strength	Breaking Strength, min, lbf (N)	D 751	220 (976)	545 (2,424)	508 (2,260)
	Elongation at Break, min %	D 751	15	33	33
	Tearing Strength, min, lbf (N)	D 751	45 (200)	64 (285)	185 (823)
	Factory Seam Strength, min, lbf (N)	D 751	66 (290)	171 (761)	
Longevity	Thickness, min, in.	D 751	+/- 10% from Nominal	0.080 (Nominal)	
	Thickness Over Scrim, min, in. (mm)	D 7635	0.015	0.033 (0.84)	
	Water Absorption, max, %	D 471	3.0	0.42	
	Brittleness Point, max, -40°F	D 2137	No Cracks	Pass	
	Ozone Resistance	D1149	No Cracks	Pass	
Heat Aged Performance	Properties after Heat Aging @ 240°F	D 573	Pass/Fail	Pass	
	Breaking Strength, % (after aging)	D 751	90	>90	>90
	Elongation, % (after aging)	D 751	90	>90	>90
	Tearing Strength, % (after aging)	D 751	60	>60	>60
	Weight Change, max, % (after aging)	D 751	±1.0	0.25	
	Linear Dimensional Change, max, % (after 6 hrs @ 158°F)	D 1204	±1.0	<0.1	
Weather Performance	Accelerated Weathering, min	G 151 & G 155	10,080 kJ/m ² •nm @ 340 nm (4,000 hrs @ 0.70 W)	10,080 kJ/m ² (4,000 hrs)	
	Cracking (@ 7x magnification)	G 155	No Cracks	Pass	

1. JM TPO FB 175 is comprised of a 80 Mil TPO membrane and an integral fleece backing.
The given physical properties are based on the JM TPO 80 Mil membrane.

* MD = Machine Direction

**XMD = Cross-Machine Direction

Note: All data represents tested values.

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