

JM TPO FB 150

Heavy-Fleece Backed Thermoplastic Polyolefin Membrane for Hot Asphalt Application

Meets or exceeds the requirements of ASTM D 6878

Features and Components

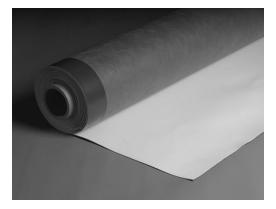
Integral Polyester Fleece Backing: In-line application of heavy fleece allows for stronger bond for polyester backing that gives flexibility and outstanding membrane protection for hot applied asphalt adhered systems.

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

Membrane



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.

P	BUR APP		SBS							
Tulfi-F	HA	CA	HW	HA	CA	HW	SA	MF		
Ž	Compatible with the selected multi-ply systems above									

픋	TP0				PVC			EPDM		
gle	MF	AD	SA	IW	MF	AD	IW	MF	AD	BA
Sin		Com	patible	with the	e select	ed singl	le ply sy	stems a	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	0.87	
Unnu"		3 Yr. Aged	0.70	0.86	
CA Title 24	White	Pass	0.77	0.87	
LEED®	White	Initial	9	5	
(SRI)		3 Yr. Aged	8	5	
Recycled			0%		
Content			5%		

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

Peak Advantage® Guarantee Information

Product	Guarantee Term
JM TP0 FB 150	15 or 20 years

Codes and Approvals





Installation/Application





Hot Asphalt Hot Air Weld

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	75' (22.86 m)			
Roll Coverage	750 ft ² (69.72 m ²)			
Rolls per Pallet	6			
Pallet Weight	1,980 lb (898.1 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.

^{*}Grey and tan are special order only.



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Tested Physical Properties

		ASTM	Standard for	JM TPO -	- FB 1501
Phys	ical Properties	Test Method	ASTM D 6878 (Min.)	MD*	XMD**
	Breaking Strength, min, lbf (N)	D 751	220 (976)	499 (2,220)	450 (2,002)
Strength	Elongation at Break, min %	D 751	15	29	27
Stre	Tearing Strength, min, lbf (N)	D 751	45 (200)	91 (404)	146 (649)
	Factory Seam Strength, min, lbf (N)	D 751	66 (290)	171 (761)	
	Thickness, min, in.	D 751	+/- 10% from Nominal	0.060 (Nominal)	
evity	Thickness Over Scrim, min, in. (mm)	D 7635	0.015	0.027 (0.686)	
Longevity	Water Absorption, max, %	D 471	3.0	0.08	
	Brittleness Point, max, -40°F	D 2137	No Cracks	Pass	
	Properties after Heat Aging @ 240°F	D 573	Pass/Fail	Pass	
۰	Breaking Strength, % (after aging)	D 751	90	>90	>90
Aged	Elongation, % (after aging)	D 751	90	>90	>90
Heat Aged Performance	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	<0.2	
Weather Performance	Accelerated Weathering, min	G 151 & G 155	10,080 kj/m²•nm @ 340 nm (4,000 hrs @ 0.70 W)	10,080 kj/m² (4,000 hrs)	
Wea Perfon	Cracking (@ 7x magnification)	G 155	No Cracks	Pass	

JM TPO FB 150 is comprised of a 60 Mil TPO membrane and an integral fleece backing.
 The given physical properties are based on the JM TPO 60 Mil membrane.

Note: All data represents tested values

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^{*} MD = Machine Direction

^{**} XMD = Cross-Machine Direction