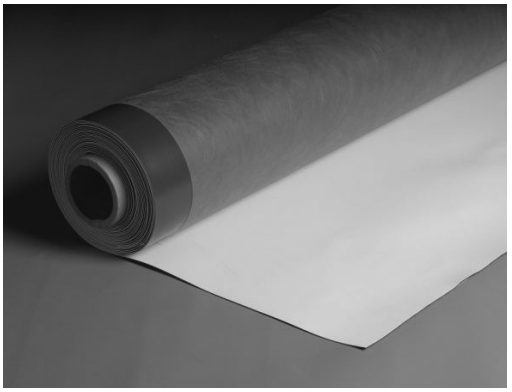
JM TPO FB 150

Heavy-Fleece Backed Thermoplastic Polyolefin Membrane for Hot Asphalt Application

Meets or exceeds the requirements of ASTM D 6878



Component
Membrane

Type
FB
Fleece Back
Single Ply

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.

Colors

White

**Grey and tan are special order only.*

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	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	0.87
		3 Yr. Aged	0.70	0.86
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 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 ft² (69.72 m²)
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.

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Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6878 (Min.)	JM TPO – FB 150[1]	
				MD*	XMD**
Strength	Breaking Strength, min, lbf (N)	D 751	220 (976)	499 (2,220)	450 (2,002)
	Elongation at Break, min %	D 751	15	29	27
	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)	
Longevity	Thickness, min, in.	D 751	+/- 10% from Nominal	0.060 (Nominal)	
	Thickness Over Scrim, min, in. (mm)	D 7635	0.015	0.027 (0.686)	
	Water Absorption, max, %	D 471	3.0	0.08	
	Brittleness Point, max, -40°F	D 2137	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	<0.2	
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 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.

* MD = Machine Direction
** XMD = Cross-Machine Direction

Note: All data represents tested values.

RS-7849 4-22 (Replacing 4-17)