

### Meets or exceeds the requirements of ASTM D 6878

#### Features and Components

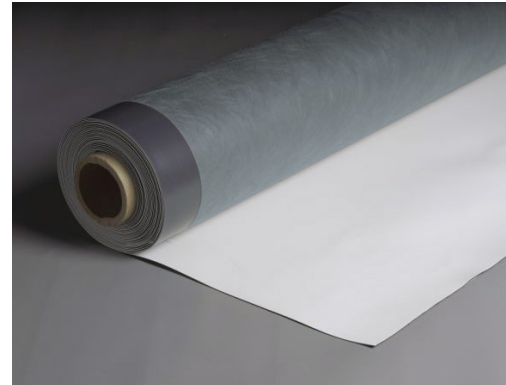
**Integral Polyester Fleece Backing:** In-line application of heavy fleece allows for stronger bond for polyester backing that gives flexibility and outstanding membrane protection for hot applied asphalt adhered systems.

**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
Compatible with the selected Multi-Ply systems above								

Single Ply	TPO	PVC		EPDM		
	FA	MF	FA	MF	FA	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 FA = Fully Adhered BA = Ballasted

#### Energy and the Environment

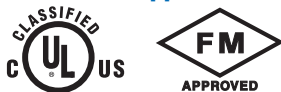
Standard		Reflectivity	Emissivity
CRRC®	White	Initial	0.77
		3 Yr. Aged	0.70
CA Title 24	White	Pass	0.77
ENERGY STAR®	White	Initial	0.77
		3 Yr. Aged	0.7
LEED® (SRI)	White	Initial	95
		3 Yr. Aged	85
Recycled Content	Post-consumer		0%
	Post-industrial		5%

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.

Refer to the Safe Use Instructions and product label prior to using this product. The Safe Use Instructions are available by calling (800) 922-5922 or on the Web at [www.jm.com/roofing](http://www.jm.com/roofing).

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### Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6878 (Min.)	JM TPO – FB 175 <sup>1</sup>	
				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 <sup>2</sup> •nm @ 340 nm (4,000 hrs @ 0.70 W)	10,080 kJ/m <sup>2</sup> (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.