

Meets or exceeds the requirements of ASTM D 6878

Features and Components

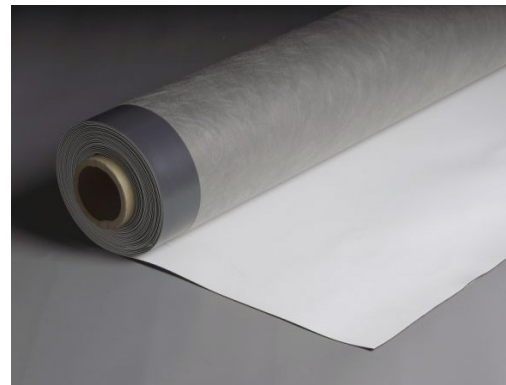
Integral Polyester Fleece Backing: In-line application of fleece allows for stronger bond for polyester backing that gives more flexibility in varying substrates for mechanically fastened or adhered systems.

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

Grey*	White	Tan*
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*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	CA	HW	HA	CA	HW	SA
Do not use with Multi-Ply systems								

Single Ply	TPO		PVC		EPDM		
	MF	AD	MF	AD	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 AD = Adhered BA = Ballasted

Energy and the Environment

	Standard		Reflectivity	Emissivity
CRRC®	White	Initial	0.77	0.87
		3 Yr. Aged	0.70	0.86
	Tan	Initial	0.67	0.87
		3 Yr. Aged	0.62	0.90
	Gray	Initial	0.35	0.87
		3 Yr. Aged	0.34	0.90
CA Title 24	White	Pass	0.77	0.87
	Tan	Pass 3 Yr. Aged	SRI=75	
ENERGY STAR®	White	Initial	0.77	0.87
		3 Yr. Aged	0.70	
	Tan	Initial	0.67	0.87
		3 Yr. Aged	0.62	
LEED® (SRI)	White	Initial	95	
		3 Yr. Aged	85	
	Tan	Initial	81	
		3 Yr. Aged	75	
	Gray	Initial	39	
		3 Yr. Aged	37	
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 135	15, 20, 25, or 30 years

Codes and Approvals



Installation/Application



Refer to JM TPO application guides and detail drawings for instructions.

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	2,160 (979.8 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.

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Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6878 (Min.)	JM TPO – FB 135 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 135 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.

Supplemental Testing

Physical Properties	ASTM Test Method	Standard for ASTM D 6878 (Min.)	JM TPO – FB 135 Result
Dynamic Puncture	D 5635	N/A	Pass @ 35 Joules
Static Puncture	D 5602	N/A	Pass @ 44 lb (20 kg)
Impact Resistance of Bituminous Roofing Systems	D 3746	N/A	Pass - minor indentations
Reflectance	C 1549	N/A	78%
Emittance	C 1371	N/A	0.87