

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

#### Features and Components

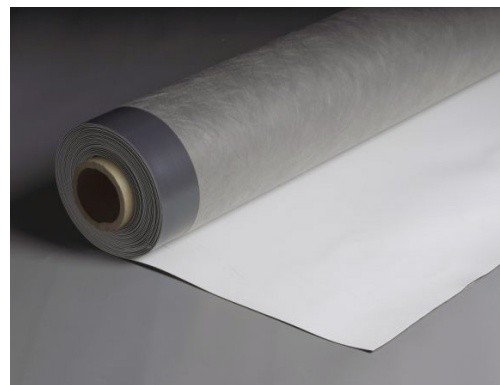
**Integral Polyester Fleece Backing:** In-line application of fleece allows for stronger bond for polyester backing that gives more flexibility in varying substrates for mechanically fastened or adhered systems.

**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* |
|-------|-------|------|

\*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 | MF |
| Do not use with Multi-Ply systems |     |    |     |    |     |    |    |    |    |

| 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       |
|                  | 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         | SRI=75 |            |
|                  |                 | 3 Yr. Aged   |        |            |
| 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 115 | 5, 10, 15 or 20 years |

#### Codes and Approvals



#### Installation/Application



Adhered Mechanically Fastened Hot Air Weld

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

#### Packaging and Dimensions

|                    |                     |
|--------------------|---------------------|
| Roll Width         | 10' (3.05 m)        |
| Roll Length        | 100' (30.48 m)      |
| Roll Coverage      | 1000 ft² (92.9 m²)  |
| Rolls per Pallet   | 6                   |
| Pallet Weight      | 2,303 lb (1,045 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 115 <sup>1</sup>         |             |
|-----------------------|---------------------------------------------------------|------------------|------------------------------------------------------------|--------------------------------------|-------------|
|                       |                                                         |                  |                                                            | 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 <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 115 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.

### Supplemental Testing

| Physical Properties | ASTM Test Method | Standard for ASTM D 6878 (Min.) | JM TPO – FB 115 Result |
|---------------------|------------------|---------------------------------|------------------------|
| Dynamic Puncture    | D 5635           | N/A                             | Pass @ 27.5 Joules     |
| Static Puncture     | D 5602           | N/A                             | Pass @ 44 lb (20 kg)   |
| Reflectance         | C 1549           | N/A                             | 78%                    |
| Emittance           | C 1371           | N/A                             | 0.87                   |

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](http://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.

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