

Meets the requirements of ASTM D 6164, Type I, Grade G

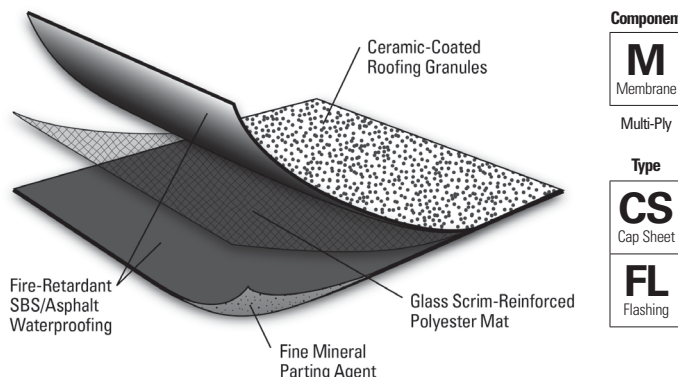
Features and Components

DynaLastic 180 FR is used as a polyester-reinforced mineral-surfaced cap or flashing sheet in a variety of multi-ply roofing systems.

Ceramic-Coated Roofing Granules: Specifically engineered for optimal embedment in the SBS-blend sheet. The ceramic coating promotes excellent long-term adhesion. The granules, available in White or Black.

High-Quality SBS Rubber and Asphalt Blend: Lends elasticity and flexibility to the sheet. The elongation and recovery properties allow the product to easily accommodate the continual expansion and contraction experienced on all roofs. The FR blend contains additional fire-retardant additives.

Polyester-Reinforced Mat: Polyester mat with bidirectional glass-scrim reinforcement offers robust tear strength and puncture resistance, allowing for high wind performance and an excellent hail rating. The sheet also exhibits strong dimensional stability and enhanced elongation.



| |
|------------------------|
| Component |
| M Membrane |
| Multi-Ply |
| Type |
| CS Cap Sheet |
| FL Flashing |



Colors: White or Black.

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 | | |
|------------------------------------|-----|----|-----|----|------|----|----|
| | MF | FA | MF | FA | MF | FA | BA |
| Do not use with Single Ply systems | | | | | | | |

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

| Test | Initial | 3-Year Aged |
|---|---------|-------------|
| Reflectivity* (ASTM C 1549) | 0.28 | pending |
| Emissivity* (ASTM C 1371) | 0.89 | pending |
| Solar Reflectance Index* (SRI) - E 1980 | 29 | pending |
| Pre-Consumer Recycled Content | 0% | |
| Post-Consumer Recycled Content | 0% | |

*Standard White Granule only

Peak Advantage® Guarantee Information

| Systems | Guarantee Term |
|--|----------------|
| When used in most 2-5 ply JM SBS systems.* | Up to 30 years |

*Contact JM Technical Services for specific system requirements for guarantee lengths.

Codes and Approvals



Product Application



Hot Asphalt



Cold Applied

- May be installed in Type IV asphalt or in an approved JM adhesive
- Laps may be installed using heat-welding techniques
- Refer to JM SBS modified bitumen specifications and detail drawings for application and slope information

Packaging and Dimensions

| | |
|---------------------|--|
| Roll Coverage* | 95.8 ft ² (8.9 m ²) |
| Roll Length | 32' 10" (10.01 m) |
| Roll Width | 39 3/8" (1 m) |
| Roll Weight | 101 lb (46 kg) |
| Rolls per Pallet | 20 |
| Pallet Weight | 2,198 lb (997 kg) |
| Pallets per Truck** | 22 |

*Assumes a 4" side lap **Assumes 48' flatbed truck.

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Tested Physical Properties

| Physical Properties | | ASTM Test Method | Standard for ASTM D 6164, Type I, Grade G (Min.) | DynaLastic 180 FR | |
|---------------------|--|-------------------------|--|-------------------------------|-----------------------|
| | | | | MD* | XMD** |
| Strength | Tensile Tear | D 5147 | 55 lbf (245 N) | 125 lbf (556 N) | 90 lbf (400 N) |
| | Peak Load at 0°F (-18°C) | D 5147 | 70 lbf/in (12 kN/m) | 110 lbf/in (19.3 kN/m) | 90 lbf/in (15.8 kN/m) |
| | Peak Load at 73.4°F (23°C) | D 5147 | 50 lbf/in (8.8 kN/m) | 80 lbf/in (14.0 kN/m) | 60 lbf/in (10.5 kN/m) |
| Longevity | Low Temp. Flexibility | Unconditioned | D 5147 | 0°F (-18°C) | -20°F (-29°C) |
| | | 90-Day Heat Conditioned | D 5147 | 0°F (-18°C) | -20°F (-29°C) |
| | Compound Stability | D 5147 | 215°F (102°C) | 250°F (121°C) | |
| | Granule Loss | D 4977 | 2 g (0.07 oz) | 0.7 g (0.02 oz) | |
| | Thickness | D 5147 | 130 mil (3.3 mm) | 157 mil (4.0 mm) | |
| | Selvage Edge Thickness | D 5147 | N/A | 119 mil (3.0 mm) | |
| | Elongation at Peak Load at 0°F (-18°C) | D 5147 | 20% | 35% | 40% |
| | Elongation at Peak Load at 73.4°F (23°C) | D 5147 | 35% | 55% | 60% |
| | Ultimate Elongation at 73.4°F (23°C) | D 5147 | 38% | 70% | 80% |
| Aged Performance | 90-Day Heat-Conditioned Peak Load at 0°F (-18°C) | D 5147 | 70 lbf/in (12 kN/m) | 110 lbf/in (19.3 kN/m) | 90 lbf/in (15.8 kN/m) |
| | 90-Day Heat-Conditioned Elongation at Peak Load at 0°F (-18°C) | D 5147 | 20% | 25% | 25% |
| | 90-Day Heat-Conditioned Peak Load at 73.4°F (23°C) | D 5147 | 50 lbf/in (8.8 kN/m) | 85 lbf/in (14.9 kN/m) | 65 lbf/in (11.4 kN/m) |
| | 90-Day Heat-Conditioned Elongation at Peak Load at 73.4°F (23°C) | D 5147 | 35% | 35% | 45% |
| | 90-Day Heat-Conditioned Ultimate Elongation at 73.4°F (23°C) | D 5147 | 38% | 45% | 45% |
| Installation | Dimensional Stability | D 5147 | 1.0% | 0.2% | 0.1% |
| | Net Mass per Unit Area | D 146 | 75 lb/100 ft² (34 kg/9.29 m²) | 93 lb/100 ft² (42 kg/9.29 m²) | |
| | Roll Weight | D 146 | N/A | 101 lb (46 kg) | |

*MD = Machine Direction

**XMD = Cross-Machine Direction

Note: All data represents tested values.

Supplemental Testing

| Physical Properties | | ASTM Test Method | DynaLastic 180 FR Result |
|---------------------------|--|------------------|--------------------------|
| Cyclic Joint Displacement | Initial | D 5849 | Pass at 500 cycles* |
| | After 90-Day Heat Conditioning per ASTM D 5147 | D 5849 | Pass at 200 cycles* |
| Coefficient of Friction | Static | D 1894 | 1.32 |
| | Kinetic | D 1894 | 0.89 |

*In a min 2-ply system when adhered with any combination of cold applied, hot applied and or heat-weld that is approved by JM for application.