DynaLastic® 180 FR CR

Fire-Retardant, Polyester-Reinforced, SBS Mineral-Surfaced, Cool Roof Cap or Flashing Sheet

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

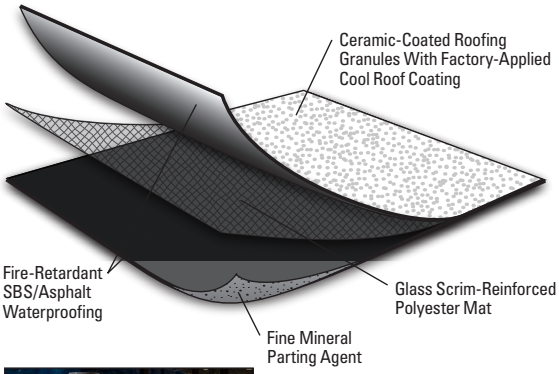
Features and Components

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

Ceramic-Coated Roofing Granules With Factory-Applied Cool Roof Coating: The cool roof technology combines the proven UV protection of ceramic-coated granules with a highly reflective coating, offering long-term performance and potential energy savings. Color: Bright White only.

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

Color: Bright White 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
	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**
CRRC®*	Reflectivity (ASTM C 1549)	0.83	0.77
	Emissivity (ASTM C 1371)	0.90	0.88
	Rated Product ID: 0662-0007a Licensed Manufacturer ID: 0662 Classification: Production Line		
	This product meets the requirements of California Title 24, Part 6		
LEED®	Solar Reflectance Index (SRI) - E 1980	104	95
	Recycled Content	0%	

* Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.

** Tested in accordance with Rapid Ratings D7897.

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 or guarantee terms.

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 ft² (8.9 m²)
Roll Length	32' 10" (10.01 m)
Roll Width	39 ⅜" (1 m)
Roll Weight	106 lb (48.1 kg)
Rolls per Pallet	20
Pallet Weight	2,250 lb (1,021 kg)
Pallets per Truck**	20

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

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 6164, Type I, Grade G (Min.)	DynaLastic 180 FR CR	
					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)	98 lb/100 ft² (44 kg/9.29 m²)	
	Roll Weight		D 146	N/A	106 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 CR 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	1.08
	Kinetic	D 1894	0.75

*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.

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