

COLPHENE® 180 FR GR

Fire Retardant, Granulated SBS-Modified Bitumen Membrane



APPLICATIONS

WATERPROOFING

PRODUCT DATA SHEET PDS10196 - REV 230428

PRODUCT NUMBERS:

- 01227 - 32.8 ft x 39.4 in (10.0 x 1.0 m) - Roll
Standard white granules (WH)

DESCRIPTION & FEATURES:

COLPHENE 180 FR GR (fire retardant, granules) is a SBS-modified bitumen membrane approved for use in waterproofing assemblies. **COLPHENE 180 FR GR** is reinforced with a tough, dimensionally stable non-woven polyester mat that is saturated and coated on both sides with a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen.

- SBS rubber polymer enhances the asphalt blend adding elongation, elasticity and flexibility to the sheet
- Reinforced with a non-woven polyester mat that increases the membrane's strength and puncture resistance
- Granule surfacing provides added resistance to weathering and UV protection
- Sanded-backside surfacing improves bonding strength between system layers
- Meets or exceeds requirements of ASTM D6164, Type I, Grade G

USES:

COLPHENE 180 FR GR is used as a component in the following systems:

PROTECTED MEMBRANE WATERPROOFING	
USE	OVERLYING MATERIAL
Protection Course	Overburden for Protected Membranes ¹
Field Cap Ply	Overburden for Protected Membranes
Flashing Cap Ply	Overburden for Protected Membranes

¹ Refer to SOPREMA's COLPHENE LM BARR Protected Membrane Waterproofing Technical Manual

APPLICATION:



Prior to installation, unroll **COLPHENE 180 FR GR** onto the deck and allow to relax. Place **COLPHENE 180 FR GR** in desired position and back roll the product. Apply approved cold adhesive following manufacturer specifications. **COLPHENE 180 FR GR** is then placed into the cold adhesive and rolled with a weighted roller to ensure adhesion.

Refer to SOPREMA's published technical literature for additional details and application requirements.

STORAGE:

Store rolls in an upright position to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture.

TESTING & APPROVALS:



WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.



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TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES

PROPERTY	VALUE
Elastomeric bitumen	Proprietary blend of bitumen and SBS polymers
ASTM standard	D6164, Type I, Grade G
Reinforcement	Non-woven polyester
Top surfacing	Ceramic coated granules
Back surfacing	Sanded
Selvage surfacing	Sanded
Selvage width, in (mm)	3 (76)

DIMENSIONS & MASS

PROPERTY	VALUE	ASTM TEST METHOD
Length, ft (m)	32.8 (10.0)	D5147
Width, in (m)	39.4 (1.0)	D5147
Coverage,* ft ² (m ²)	97.9 (9.1)	D5147
Roll weight, lb (kg)	116 (52.7)	D5147
Rolls per pallet	25	D5147
Pallet weight, lb (kg)	2,950 (1,338)	D5147
Thickness, mils (mm)	160 (4.0)	D5147
Thickness @ selvage, mils (mm)	130 (3.3)	D5147
Net mass per unit area, lb/100 ft ² (g/m ²)	108 (5,276)	D5147
Bottom coating thickness, mils (mm)	≥ 40 (1.0)	D5147

*Coverage rate as reported assumes installation using side and end lap recommendations.

PHYSICAL PROPERTIES

PROPERTY	MD	XMD	ASTM TEST METHOD
Peak load @ 0°F (-18°C), lbf/in (kN/m)	115 (20.1)	90 (15.8)	D5147
Elongation at peak load @ 0°F (-18°C), %	35	40	D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	85 (14.9)	65 (11.4)	D5147
Elongation at peak load @ 73.4°F (23°C), %	55	60	D5147
Ultimate Elongation @ 73.4°F (23°C), %	65	80	D5147
Tear strength @ 73.4°F (23°C), lbf (N)	125 (556)	85 (378)	D5147
Low temperature flexibility, °F (°C)	-15 (-26)	-15 (-26)	D5147
Dimensional stability, %	< 0.5	< 0.5	D5147
Compound stability, °F (°C)	240 (116)	240 (116)	D5147
Granule embedment, g	1.5 avg		D5147
Hydrostatic head pressure	Pass		D5385
Water vapor permeance, perms (ng/s·m ² ·Pa)	< 0.004 (0.23)		E96 Procedure B
Puncture resistance, lbf (N)	215 (956)		E154

Data is represented by average values, unless noted otherwise.