

Product Information Sheet



PVC FB Modular C3 Membrane (Cooley) PIN # 1127

Item Description
47Mil 13' wide felt backed x custom length

product Number
MP-MODFBEW

Product Information

Developed in 1988 and commercialized in 1990, the original C3 formula (with Elvaloy) continues today to prove its reliability and durability. The C3 Plus product entered the market in 1994 with Cooley's patented ultra-high-strength Aramid yarns added along the fastener edge to provide maximum tensile strength and puncture resistance where it counts the most. C3 is a proprietary formulation blending DuPont™ KEE (ketone ethylene ester) and PVC. This unique blend offers superior UV performance and the highest chemical resistance in a single-ply roofing product.

C3 FB is manufactured with the same C3 formulation as C3 Plus with the addition of a non-woven, polyester fleece-backer for fully-adhered applications. The fleece is impregnated into the film while in its molten state (not post-laminated or glued). C3 FB can be installed in hot asphalt. After evaluating a 17-year-old C3 FB membrane installed in hot asphalt, testing showed no trace of asphalt bleeding through the membrane. This is testimony to the superior chemical resistance of C3 FB credited to the Elvaloy content.

Method of Application:

The Cooley C3FB membrane is used in fully adhered roofing systems in new construction, reroofing and recover (retrofit) for Modular applications. The system must be installed over acceptable roof insulation or other suitable substrate.

Typical Properties:

Base Fabric	Standard	Metric
Base Fabric Weight	3.41 oz / yd ²	116 g / m ²
Fiber/Style	Non woven polyester backing	

Coated Fabric	Standard	Metric
Thickness, overall	55 (+/- 4) mils	1.40 (+/- 0.10) mm
Thickness, over scrim (min)	25 mils	0.25 mm
Coating Type	PVC / CPA	

For further information contact
RPW Associates, Inc
905-875-1108 / 866-202-6900

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Material Properties	ASTM Test Methods	Standard	Metric
Tensile Strength, Grab (Warp / Fill)	D751A	270 / 240 lbs	1,200 / 1,070 N
Tensile Elongation (Warp / Fill)	D751A	15% / 15%	
Tear Strength, Tongue (Warp / Fill)	D5884	45 / 45 lbs	200 / 200 N
Properties After Oven Aging (retained)			
Tensile Strength, Grab	D573	90%	
Tensile Elongation	D573	90%	
Puncture Strength (FTMS 101C)	Method 2031	300 lbs	1,330 N
Hydrostatic Resistance	D751	350 psi	2.4 MPa
Abrasion Resistance (H18 / 1 kg)	D3884	2,000 cycles	
Ply Adhesion (at Aramid edge)	D751	14lbs / 2 in	62 N / 5 cm
Ozone Resistance (no cracks)	D1149	Pass	
Water Absorption	D471	< 1 %	
Dimensional Stability (1 hr / 100°C)	D1204	< 1 %	
Solar Reflectance (white)	C1549	0.86	
Solar Emittance (white)	E408	0.86	
Solar Reflective Index (white)	E1980	133	
Properties After 2 yr Weathering (retained)			
Tensile Strength, Grab	G90 / cycle 1	90%	
Tensile Elongation	G90 / cycle 1	90%	
Low Temp	D2136	-40°F	-40°C

Storage:

- Store away from sources of punctures and physical damage.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.

Precautions:

- Refer to Safety Data Sheets (SDS) for safety information.
- Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

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