

IB PVC Single-Ply ChemGuard™ 50

Product Description:

IB PVC Single-Ply ChemGuard™ 50 is a polyester scrim reinforced, compounded pvc resin based sheet with DuPont® Elvaloy® KEE, plasticizers, stabilizers, fillers, pigments and other proprietary materials meeting ASTM D4434, Type III. Rolls are manufactured in a nominal 50 mil thickness and use an anti-wicking scrim for added strength, tear resistance and enhanced moisture resistance.

Packaging:

Size	Sq. Ft. / Weight per roll (approx.)
6' x 90'	540 sq. ft. / 175 lbs.
3' x 90'	270 sq. ft. / 90 lbs.

Features:

- Meets and exceeds ASTM D4434-12, Type III Thermoplastic Membrane
- Excellent flexibility in all climates
- ChemGuard™ is a specially designed chemical resistant CPA membrane that was developed specifically for industrial and restaurant applications
- Highly reflective IB PVC Single-Ply ChemGuard™ can help to reduce heat transfer through the roof into the building's interior
- Thick, heavy duty 24 mil top ply weathering film
- Thermally welded seams provide superior seam strength
- Exceeds Energy Star™ and California Title 24 requirements for Solar Reflectance and Emissivity (White)

Use:

IB PVC Single-Ply ChemGuard™ 50 can be installed in new, recover, and re-roof constructions as the primary field membrane and base flashing at all roof to wall transitions. It can be mechanically attached or fully adhered to a properly prepared substrate with approved fasteners and membrane plates or approved membrane adhesive.

Warranties:

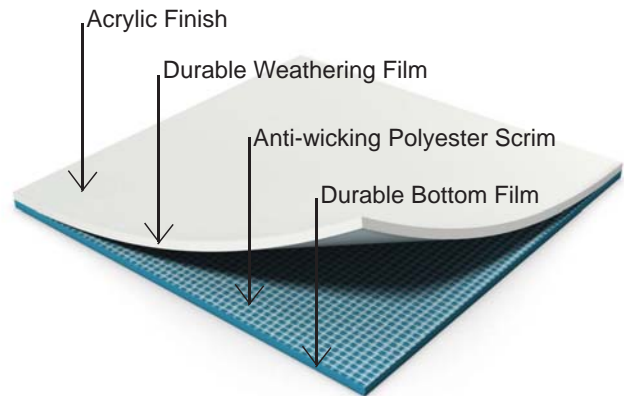
IB PVC Single-Ply ChemGuard™ 50 has a 15-Year Limited Material Warranty and is available for 'Warranty Plus' and 'Total System' warranties for IB Roof Systems Authorized Applicators.

Available Colors:

White

Approvals:

IB PVC membranes are listed with various component assemblies at UL and Factory Mutual (F.M. Global) for fire, wind uplift and impact resistance. Visit our website for links to these agencies and listings at: www.ibroof.com.



Solar Reflectance / Thermal Emittance / Calculated SRI Values					
Membrane Color	Solar Reflectance	Thermal Emittance	SRI Value Initial	SRI Value 3-Year Aged	LRV
White	0.870	0.88	110	91	94.3

Property	Method	Requirement	50 Mil
Overall thickness of PVC sheet, min. (in.)	ASTM D751	0.045	0.050 nom.
Breaking strength, min. (lbf/in.)	ASTM D751	200 x 200	332 x 256
Elongation at the break, min. %	ASTM D751	15 ^A x 15 ^A	34 x 29
Retention of properties after heat aging (min. % of original):	ASTM D3045		
Breaking strength	ASTM D751	90	Pass
Elongation	ASTM D751	90	Pass
Tearing strength, min. (lbf)	ASTM D751	45.0	54 x 68
Low temperature bend	ASTM D2136	-40°F	Pass
Accelerated weathering test:	ASTM G154		
Cracking (7x magnification)		None	None
Crazing (7x magnification)		None	None
Linear dimension change, max%	ASTM D1204	+/- 0.5	-0.30 MD 0.02 XMD
Change in weight after immersion in water, max %	ASTM D570	+/- 3.0	1.1
Static puncture resistance	ASTM D5602	Pass	Pass
Dynamic puncture resistance	ASTM 5636	Pass	Pass
^A For reinforcing fabric only, elongation of PVC material shall be 250% MD and 220% XMD			
The table presents typical properties of IB PVC membranes. Requirements are taken from ASTM D4434-12.			

Recycle Content	
Pre Consumer	20%