

Technical Data Sheet

IB® PVC Single-Ply ChemGuard™ FB-50

IB Roof Systems®

Product Description:

IB PVC Single-Ply ChemGuard™ FB-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. The underside of the membrane has a tough polyester fleece backing compatible with both adhered and mechanically fastened applications.

Packaging:

Size	Sq. Ft.	Weight per roll (approx.)
6' x 90'	540 sq. ft.	192 lbs.

Features:

- Premium calendrer-film laminated, compounded, and manufactured
- Meets and exceeds ASTM D 4434-15, Type III Thermoplastic Membrane
- Excellent flexibility in all climates
- ChemGuard™ is specially designed chemical resistant CPA membrane that was developed specially for industrial and restaurant applications
- Highly reflective IB PVC 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)
- 3.5 oz fleece backing for enhanced performance

Use:

IB PVC Single-Ply ChemGuard™ FB 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.

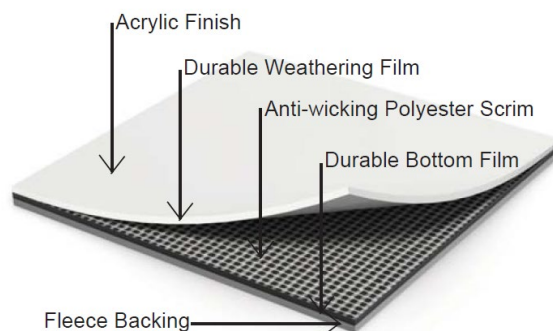
Warranties:

IB PVC Single-Ply ChemGuard™ FB-50 Warranty options when installed by IB Authorized Applicators subject to IB Roof Systems specifications and warranty requirements:

- Lifetime Residential Limited Material Warranty
- 15 Year Residential Limited Material Warranty
- 15-20 Year Commercial Limited Material Warranty
- 15 Year Warranty Plus Labor & Material Warranty
- 10-20 Year Total Systems Warranty

Available Colors:

White



Solar Reflectance / Thermal Emittance / Calculated SRI Values					
Membrane Color	Solar Reflectance	Thermal Emittance	SRI Value Initial	SRI 3-Year Aged	LRV
White	0.87	0.88	110	91	94.3

Property	ASTM Method	Requirement	50 Mil
Overall thickness, PVC sheet, min. (in.)	D751	0.045	0.050
Breaking strength, min. (lb/ft)	D751	200 X 200	360 x 286
Elongation at the break, min. %	D751	15^AX15^A	35 x 34
Retention of properties after heat aging (min. % of original):	D3045		
Breaking strength	D751	90	Pass
Elongation	D751	90	Pass
Tearing strength, min. (lb/ft)	D751	45.0	62 x 85
Low temperature bend	D2136	-40F	Pass
Accelerated weathering test:	G154		
Cracking (7x magnification)		None	None
Crazing (7x magnification)		None	None
Linear dimension change, max %	D1204	+/- 0.5	-0.30 MD 0.10 XMD
Change in weight after immersion in water, %	D570	+/- 3.0	1.1
Static puncture resistance	D5602	Pass	Pass
Dynamic puncture resistance	5635	Pass	Pass
^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 D4434-15.			

Recycle Content	
Pre-Consumer	20%

Approvals:

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

