

Technical Data Sheet

IB® PVC ChemGuard™ Single Ply 50

IB Roof Systems®

Product Description:

IB PVC ChemGuard™ Single Ply 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.	88 lbs.

Features:

- Premium calender-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)

Use:

IB PVC ChemGuard™ Single Ply 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 adhered, induction welded or mechanically attached to a properly prepared substrate with approved fasteners and membrane plates or approved membrane adhesive.

Warranties:

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

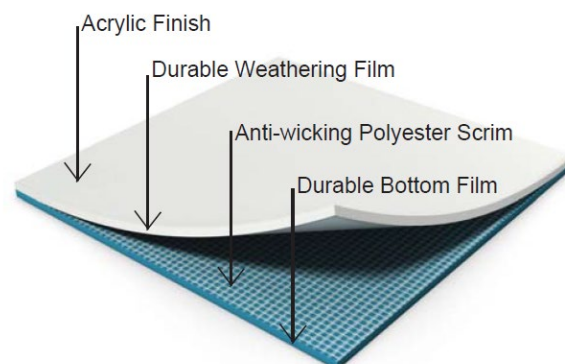
- Lifetime Residential Limited Material Warranty
- 15 Year Residential Limited Material Warranty
- 15-20 Year Commercial Limited Material Warranty
- 15 Year Warranty Plus Labor & Material Warranty
- 10-20 Year Total Systems Warranty

Available Colors:

White

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.



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
Thickness over scrim	D7635	0.016	0.024
Breaking strength, min. (lb/in)	D751	200 X 200	332 x 256
Elongation at the break, min. %	D751	15 ^A X15 ^A	34 x 29
Retention of properties after heat aging (min. % of original):	D3045		
Breaking strength	D751	90	Pass
Elongation	D751	90	Pass
Tear strength, min. (lbf)	D751	45.0	54 x 68
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 0.02 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%	
APPLICATION			
ADHERED (FA)	INDUCTION (IW)	MECHANICALLY ATTACHED (MA)	