

# IB® PVC Single Ply 50

## Product Description:

IB PVC Single Ply 50 is a polyester scrim reinforced, compounded PVC resin-based sheet with 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
- 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 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 Single Ply 50 Warranty options when installed by IB Authorized Applicators subject to IB Roof Systems specifications and warranty requirements:

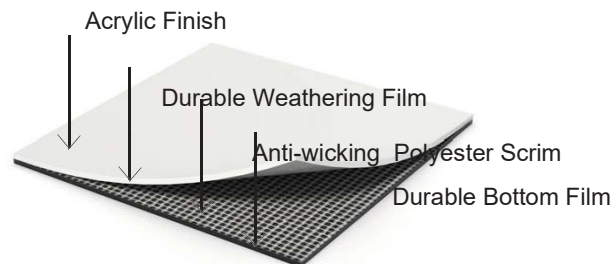
- Lifetime Residential Limited Material Warranty
- 15 Year Residential Limited Material Warranty
- 15-20 Year Commercial Limited Material Warranty
- 15 Year Warranty Plus Labor & Material Warranty
- 10-20 Year Total Systems Warranty

## Available Colors:

White, tan, and gray

## 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](http://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 |
| Tan                                                           | 0.36              | 0.89              | 39                | 34              | 30.2 |
| Gray                                                          | 0.16              | 0.88              | 13                | NA              | 18.1 |

| 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/ft)                                                                       | D751        | 200 X 200                        | 332 x 256            |
| Elongation at the break, min. %                                                                       | D751        | 15 <sup>A</sup> X15 <sup>A</sup> | 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. (lb/ft)                                                                           | D751        | 45.0                             | 54 x 68              |
| Low temperature bend                                                                                  | D2136       | -40°F                            | 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<br>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                 |
| ^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 D4434-15. |             |                                  |                      |
| Recycle Content                                                                                       |             |                                  |                      |
| Pre-Consumer                                                                                          |             | 20%                              |                      |
| APPLICATION                                                                                           |             |                                  |                      |
| ADHERED (FA)                                                                                          |             | INDUCTION (IW)                   |                      |
|                                                                                                       |             | MECHANICAL (MA)                  |                      |