

# IB PVC Single-Ply ChemGuard™ 80

**Product Description:**

IB PVC Single-Ply ChemGuard™ 80 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 80 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 60' | 360 sq. ft. / 191 lbs.              |
| 3' x 60' | 180 sq. ft. / 98 lbs.               |

**Features:**

- Meets and exceeds ASTM D 4434-12, 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 38 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™ 80 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:**

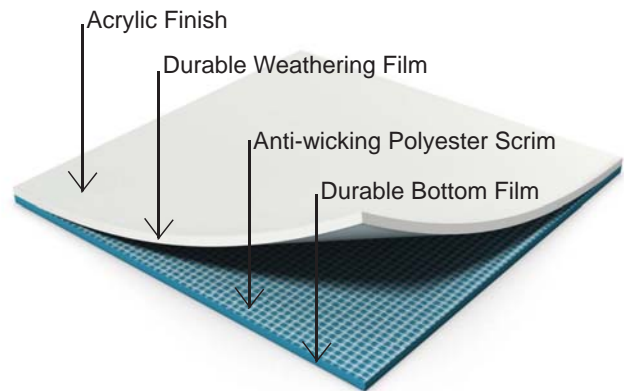
IB PVC Single-Ply ChemGuard™ 80 has a 25-Year Limited Material Warranty and is available for 'Warranty Plus' and 'Total Systems' warranties for IB Roof Systems Authorized Applicators.

**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](http://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                       | 80 Mil               |
|--|------------|-----------------------------------|----------------------|
| Overall thickness of PVC sheet, min. (in.)                     | ASTM D751  | 0.045                             | 0.080 nom.           |
| Breaking strength, min. (lbf/in.)                              | ASTM D751  | 200 x 200                         | 408 x 388            |
| Elongation at the break, min. %                                | ASTM D751  | 15 <sup>A</sup> x 15 <sup>A</sup> | 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                              | 62 x 78              |
| 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<br>0.02 XMD |
| Change in weight after immersion in water, max %               | ASTM D570  | +/- 3.0                           | 0.9                  |
| Static puncture resistance                                     | ASTM D5602 | Pass                              | Pass                 |
| Dynamic puncture resistance                                    | ASTM 5636  | Pass                              | Pass                 |

<sup>A</sup>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% |