Technical Data Sheet

IB PVC Single-Ply 80

Product Description:
IB PVC Single-Ply 80 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 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 Thermoplastics Membrane
• 25-Year Limited Material Warranty
• Excellent flexibility in all climates
• Highly reflective IB PVC Single-Ply 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 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:

Available Colors:
White, tan, gray, red, green, and brown.

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

<table>
<thead>
<tr>
<th>Membrane Color</th>
<th>Solar Reflectance</th>
<th>Thermal Emittance</th>
<th>SRI Value Initial</th>
<th>SRI Value 3-Year Aged</th>
<th>LRV</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>0.870</td>
<td>0.88</td>
<td>110</td>
<td>91</td>
<td>94.3</td>
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<tr>
<td>Tan</td>
<td>0.366</td>
<td>0.87</td>
<td>39</td>
<td>N/A</td>
<td>30.2</td>
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<tr>
<td>Gray</td>
<td>0.163</td>
<td>0.88</td>
<td>13</td>
<td>N/A</td>
<td>18.1</td>
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<tr>
<td>Red</td>
<td>0.243</td>
<td>0.88</td>
<td>25</td>
<td>N/A</td>
<td>9.7</td>
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<tr>
<td>Green</td>
<td>0.073</td>
<td>0.88</td>
<td>2</td>
<td>N/A</td>
<td>7.7</td>
</tr>
<tr>
<td>Brown</td>
<td>0.079</td>
<td>0.87</td>
<td>2</td>
<td>N/A</td>
<td>7.2</td>
</tr>
</tbody>
</table>

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" x 15" | 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:
| Cracking (7x magnification) | ASTM G154 | 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 | 0.9
Static puncture resistance | ASTM D5602 | Pass | Pass
Dynamic puncture resistance | ASTM D5636 | 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 D4434-12.

Recycle Content
Pre Consumer | 20%