### TYPICAL PHYSICAL PROPERTIES*

<table>
<thead>
<tr>
<th>Property</th>
<th>Units</th>
<th>ASTM</th>
<th>EXPANDED PVC</th>
<th>ULTRA WHITE</th>
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<tbody>
<tr>
<td><strong>Physical</strong></td>
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<tr>
<td>Density</td>
<td>g/cm³</td>
<td>D 792</td>
<td>0.58</td>
<td>1.42</td>
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<tr>
<td>Water Absorption</td>
<td>%</td>
<td>D 570</td>
<td>0.15 - 0.30</td>
<td>0.06</td>
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<tr>
<td>Hunter Whiteness Index</td>
<td></td>
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<td>85</td>
<td>89</td>
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<tr>
<td>Surface Energy</td>
<td>Dyne</td>
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<td>38</td>
<td>28</td>
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<tr>
<td>Hardness</td>
<td>Shore D</td>
<td>D 224</td>
<td>55</td>
<td>89</td>
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<tr>
<td><strong>Mechanical</strong></td>
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<tr>
<td>Tensile Strength</td>
<td>psi</td>
<td>D 638</td>
<td>2,256-3,000</td>
<td>7,400</td>
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<tr>
<td>Flexural Strength</td>
<td>psi</td>
<td>D 790</td>
<td>3,755</td>
<td>10,000</td>
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<tr>
<td>Flexural Modulus</td>
<td>psi</td>
<td>D 790</td>
<td>170,000</td>
<td>400,000</td>
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<tr>
<td>Screw Hold</td>
<td>psi</td>
<td>D 1761</td>
<td>17.0 - 300</td>
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<tr>
<td>Izod Impact</td>
<td>ft-lb/in</td>
<td>D 256</td>
<td>0.69</td>
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<tr>
<td><strong>Thermal</strong></td>
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<tr>
<td>Heat Deflection Temp (264 psi)</td>
<td>°F</td>
<td>D 648</td>
<td>175</td>
<td>176</td>
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<tr>
<td>Coefficient of Linear Expansion</td>
<td>in/in/°F</td>
<td>D 696</td>
<td>2.3 X 10⁻⁵</td>
<td>3.2 X 10⁻⁵</td>
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<tr>
<td>Vicat Softening Point</td>
<td>°F</td>
<td>D 1525</td>
<td>168</td>
<td>181</td>
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<td>Thermal Resistance R (0.5&quot; Thick)</td>
<td>R</td>
<td>C 518</td>
<td>.948</td>
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<td><strong>Flammability Ratings</strong></td>
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<td>Flame Spread Index</td>
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<td>E 84</td>
<td>Class A</td>
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<td>Vertical Burn Test</td>
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<td>UL 94</td>
<td>V-0</td>
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<td>Fire Foam Test</td>
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<td>UL 1975</td>
<td>Passed / Classified</td>
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<td>Oil Canning (@140)</td>
<td>°f</td>
<td>D648</td>
<td>Passed</td>
<td>-</td>
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<td><strong>Electrical</strong></td>
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<tr>
<td>Dielectric Strength</td>
<td>kV/cm</td>
<td>D 149</td>
<td>72</td>
<td>645</td>
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<tr>
<td><strong>Compliances</strong></td>
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<td></td>
<td>FDA, RoHS</td>
<td>RoHS, REACH, ASTM D 1784</td>
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</tbody>
</table>

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