Sintered Extruded PTFE Film

FLUOROWRAP® E124 Sintered Extruded PTFE Film is a high modulus PTFE film manufactured by extrusion and sintering processes. The physical properties of sintered extruded PTFE film exceed the physical properties of skived PTFE films.

Features/Benefits

- High dielectric strength
- High chemical resistance
- Low moisture absorption
- Resistance to permeability
- High temperature insulation
- High modulus
- Operating temperature range -100°F (-73°C) to +500°F (260°C)
- RoHS and REACH compliant

Availability

FLUOROWRAP® E124 is available in natural as a standard product and in white and colors with minimum order requirements. FLUOROWRAP® E124 is supplied on industry standard 3” (76 mm) ID cores. Approximate full width is 9” (229 mm). Customized solutions available.

Applications

- High temperature wire and cable
- Coil winding
- Gaskets
- Diaphragms
FLUOROWRAP® E124 Properties

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

<table>
<thead>
<tr>
<th>Property</th>
<th>English Units</th>
<th>Metric Units</th>
<th>English Units</th>
<th>Metric Units</th>
<th>English Units</th>
<th>Metric Units</th>
<th>English Units</th>
<th>Metric Units</th>
<th>English Units</th>
<th>Metric Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>2.0 mil</td>
<td>0.051 mm</td>
<td>3.0 mil</td>
<td>0.076 mm</td>
<td>4.0 mil</td>
<td>0.102 mm</td>
<td>5.0 mil</td>
<td>0.127 mm</td>
<td>10.0 mil</td>
<td>0.254 mm</td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td>2.17 g/cm²</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength MD (minimum)</td>
<td>5,500 psi</td>
<td>38 MPa</td>
<td>6,000 psi</td>
<td>41 MPa</td>
<td>7,500 psi</td>
<td>52 MPa</td>
<td>6,000 psi</td>
<td>41 MPa</td>
<td>5,500 psi</td>
<td>38 MPa</td>
</tr>
<tr>
<td>Elongation MD (minimum)</td>
<td>150 %</td>
<td></td>
<td>250 %</td>
<td></td>
<td>300 %</td>
<td></td>
<td>300 %</td>
<td></td>
<td>300 %</td>
<td></td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>6,000 total volts</td>
<td></td>
<td>8,000 total volts</td>
<td></td>
<td>9,000 total volts</td>
<td></td>
<td>11,000 total volts</td>
<td></td>
<td>15,000 total volts</td>
<td></td>
</tr>
<tr>
<td>Approximate Yield</td>
<td>43.5 ft²/lb</td>
<td>8.9 m²/kg</td>
<td>29.0 ft²/lb</td>
<td>5.9 m²/kg</td>
<td>21.7 ft²/lb</td>
<td>4.4 m²/kg</td>
<td>17.4 ft²/lb</td>
<td>3.6 m²/kg</td>
<td>8.7 ft²/lb</td>
<td>1.8 m²/kg</td>
</tr>
</tbody>
</table>

FLUOROWRAP® is a registered trademark.

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