**DESCRIPTION**
DuPont™ Kapton® MT+ polyimide film is a homogeneous film possessing nearly 2x the thermal conductivity of Kapton® MT, while retaining superior electrical properties. Its thermal conductivity properties make it ideal for use in controlling and managing heat in electronic assemblies and as a substrate for thermal interface materials.

Kapton® MT+ offers an excellent combination of electrical properties, thermal conductivity, and mechanical toughness for its use in electronic and automotive applications.

**APPLICATIONS**
- Thermal interface material substrate
- Heater circuits
- Power supplies
- Ceramic board replacement

**FEATURES**
- Highest thermal conductivity for a polyimide film
- High mechanical integrity
- Extended storage between 4-29°C (40-85°F)
- UL 94 V-0 flammability rating
- RoHS Compliance

**Table 1 – Typical Properties of DuPont™ Kapton® MT+ Polyimide Film**

<table>
<thead>
<tr>
<th>Property</th>
<th>100MT+</th>
<th>150MT+</th>
<th>200MT+</th>
<th>300MT+</th>
<th>500MT+</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness, mils (mm)</td>
<td>1.0 (0.025)</td>
<td>1.5 (0.038)</td>
<td>2.0 (0.050)</td>
<td>3.0 (0.076)</td>
<td>5.0 (0.127)</td>
<td>ASTM D374</td>
</tr>
<tr>
<td>Tensile Strength – MD, kpsi (MPa)</td>
<td>12.9 (89)</td>
<td>12.8 (88)</td>
<td>12.5 (86)</td>
<td>11.9 (82)</td>
<td>14.0 (97)</td>
<td>ASTM D882</td>
</tr>
<tr>
<td>Tensile Strength – TD, kpsi (MPa)</td>
<td>10.1 (70)</td>
<td>10.9 (75)</td>
<td>10.9 (75)</td>
<td>10.0 (69)</td>
<td>12.2 (84)</td>
<td>ASTM D882</td>
</tr>
<tr>
<td>Modulus, kpsi (GPa)</td>
<td>544 (3.8)</td>
<td>575 (4.0)</td>
<td>580 (4.0)</td>
<td>580 (4.0)</td>
<td>580 (4.0)</td>
<td>ASTM D882</td>
</tr>
<tr>
<td>Elongation to Break – MD, %</td>
<td>49</td>
<td>56</td>
<td>47</td>
<td>32</td>
<td>30</td>
<td>ASTM D882</td>
</tr>
<tr>
<td>Elongation to Break – TD, %</td>
<td>46</td>
<td>54</td>
<td>56</td>
<td>24</td>
<td>28</td>
<td>ASTM D882</td>
</tr>
<tr>
<td>Dielectric Strength, kVAC</td>
<td>7.1</td>
<td>8.85</td>
<td>10.2</td>
<td>12.6</td>
<td>16</td>
<td>ASTM D149</td>
</tr>
<tr>
<td>Surface Resistivity, Ω</td>
<td>&gt;10¹⁵</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ASTM D257</td>
</tr>
<tr>
<td>Volume Resistivity, Ω·cm</td>
<td>&gt;10¹⁵</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ASTM D257</td>
</tr>
<tr>
<td>Thermal Conductivity, W/m-K</td>
<td>0.77</td>
<td>0.82</td>
<td>0.85</td>
<td>0.85</td>
<td>0.73</td>
<td>ASTM D5470</td>
</tr>
<tr>
<td>Flammability</td>
<td>V-0</td>
<td>V-0</td>
<td>V-0</td>
<td>Pending</td>
<td>Pending</td>
<td>UL94</td>
</tr>
<tr>
<td>RoHS Compliant</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

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