Material: Cirlex® Polyimide

Cirlex® is made from 100% DuPont Kapton® adhesiveless polyimide film. It is a product that delivers performance, value for all your demanding material applications, and an ideal match for environmental extremes. Fralock is Dupont’s sole licensee for the production of Cirlex® worldwide.

Seamless integration in polyimide.

If you are looking to replace current applications using ceramic or Vespel®, or upgrade to a new high performance polyimide materials, Cirlex® offers material flexibility and an expanded range of thickness options unattainable with cast resins or laminated constructions using adhesives.

<table>
<thead>
<tr>
<th>Mechanical Property</th>
<th>Temperature</th>
<th>ASTM</th>
<th>Units</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Compressive Strength</td>
<td>23°C (73.4°F)</td>
<td>D695-15</td>
<td>kpsi</td>
<td>45.26</td>
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<td></td>
<td>100°C (212°F)</td>
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<td>200°C (392°F)</td>
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<td>Ultimate Tensile Strength</td>
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<td>200°C (392°F)</td>
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<td>250°C (482°F)</td>
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<td>16.50</td>
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<td>Tensile Modulus</td>
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<td>kpsi</td>
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<td>100°C (212°F)</td>
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<td>Tensile Yield @ 3% Elongation</td>
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<td>250°C (482°F)</td>
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<td>Poisson’s Ratio</td>
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<td>D3039-17</td>
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<th>Typical Values</th>
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<tbody>
<tr>
<td>Surface Roughness Average</td>
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<td>Ra ≤ 32</td>
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<tr>
<td>Specific Gravity</td>
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<td>Thermal Property</td>
<td>Temperature</td>
<td>ASTM or Test Method</td>
<td>Units</td>
<td>Typical Values</td>
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<td>Glass Transition, Tg</td>
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<td>Specific Heat</td>
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<td>CTE In-plane</td>
<td>(23° – 350° C)</td>
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<td>ASTM E595</td>
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<td>Outgassing CVCM</td>
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<td>ASTM E595</td>
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<table>
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<td>Dielectric Strength</td>
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<td>V/mil</td>
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<td>Dielectric Constant DC @ 10KHz</td>
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<td>ASTM D150</td>
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<td>ASTM D150</td>
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Fralock
28525 West Industry Drive
Valencia, CA 91355
www.fralock.com

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