PAR Group Ltd
B34 Polyimide Glass Laminate
Technical Data Sheet

Material Details

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>B34 (Glass Based Laminate - SRBG)</td>
</tr>
<tr>
<td>Description</td>
<td>Polyimide glass, high temperature high strength.</td>
</tr>
<tr>
<td>Comments</td>
<td>High temperature, high performance laminates developed for applications where good dimensional stability, electrical / mechanical strength and rigidity are required at elevated temperatures. Capable of long-term use at 200°C and intermittent use at higher temperatures.</td>
</tr>
<tr>
<td>Specifications</td>
<td>BSEN60893-3-7-PIGC301. (Which supersedes BS3953 SI4 &amp; SI5).</td>
</tr>
<tr>
<td>Body Colour</td>
<td>Dark Brown</td>
</tr>
<tr>
<td>Cover Colour</td>
<td>Dark Brown</td>
</tr>
<tr>
<td>Standard Finish</td>
<td>Matt</td>
</tr>
</tbody>
</table>

General Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>2</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>Flammability Category*</td>
<td>FV0</td>
<td></td>
</tr>
</tbody>
</table>

*The test method is used solely to control and monitor consistency of production. Under no conditions should the results be considered in relation to fire hazards under actual conditions of use.

Electrical Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR (24hrs Water Immersed)</td>
<td>6000</td>
<td>GΩ</td>
</tr>
<tr>
<td>Electric Strength (Flat Rapid)</td>
<td>21</td>
<td>MV/m</td>
</tr>
<tr>
<td>Electric Strength (Flat Step by Step)</td>
<td>15</td>
<td>MV/m</td>
</tr>
<tr>
<td>Breakdown of Voltage (Edge Step by Step)</td>
<td>92</td>
<td>kV</td>
</tr>
<tr>
<td>Relative Permittivity @ 1 MHz</td>
<td>5.4</td>
<td>-</td>
</tr>
<tr>
<td>Dissipation Factor @ 1 MHz</td>
<td>0.025</td>
<td>-</td>
</tr>
<tr>
<td>Tracking Index</td>
<td>165</td>
<td>V</td>
</tr>
</tbody>
</table>

All recommendations and information contained on this data sheet are, to the best of our knowledge, correct. Product specifications are intended as guidelines. Since conditions of service are beyond our control, users must satisfy themselves that products are suitable for the intended use. No guarantee or warranty is given or implied in respect of information or recommendations, or that any use of products will not infringe rights belonging to other parties. We reserve the right to change product design and properties without notification.
Mechanical Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Strength</td>
<td>540</td>
<td>MPa</td>
</tr>
<tr>
<td>Flexural Strength at 150°C</td>
<td>350</td>
<td>MPa</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>350</td>
<td>MPa</td>
</tr>
<tr>
<td>Impact (Notched CHARPY)</td>
<td>80</td>
<td>kJ/m²</td>
</tr>
</tbody>
</table>

Thermal Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Rating Continuous</td>
<td>200</td>
<td>°C</td>
</tr>
<tr>
<td>Thermal Rating Intermittent</td>
<td>250</td>
<td>°C</td>
</tr>
</tbody>
</table>