BISMALEIMIDE FILM

Bismaleimides are rarely used in their pure and solid form. In most applications they are used together with the reactive monomers (a great advantage of these mixtures is a better possibility of treatment).

With monomers, bismaleimide powders can be converted into viscous liquids and cast into desired shapes. However, the viscosity of such systems is often very high so that diluents must be added to facilitate implementation or even make implementation possible.

The range of bismaleimide films has been developed with the following objectives:

- Simplified treatment
- High adhesive strength
- High thermal resistance
- Treatment free of solvents
- Difficult to dissolve
- Resistance to moisture
- Withstand up to 240 °C
- Thickness of film of ~ 100 μm
- Hot polymerization (150 to 170 °C)
- Very high modulus of elasticity
- Glass transition temperature > 200 °C

Compatible collages: These adhesives are suitable for bonding metals (aluminium, stainless steel, steel etc.), glass, ceramics, PTFE and plastics.

These films are available as a dry layer of bismaleimide adhesive on a polyester film. The treatment of film adhesives is simpler and cleaner than that of adhesive pastes, since the adhesive can be cut to the desired shape and then applied to the bonding surface.

<table>
<thead>
<tr>
<th>Reference N°</th>
<th>Units</th>
<th>306</th>
<th>307</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Temperature</td>
<td>°C</td>
<td>220</td>
<td>240</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow translucide</td>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>Film thickness</td>
<td>μm</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Viscosity (23°C)</td>
<td>Flexible solid film</td>
<td>Flexible solid film</td>
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</tr>
<tr>
<td>Density</td>
<td>g/cm²</td>
<td>1.18</td>
<td>1.18</td>
</tr>
<tr>
<td>Storage (2-35°C)</td>
<td>years</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cure Temperature</td>
<td>°C</td>
<td>150 / 200°C</td>
<td>150 / 200°C</td>
</tr>
</tbody>
</table>

For pricing information or general queries, please email: info@final-materials.com
Shear strengths in MPa of bismaleimide film 306 on stainless steel and aluminum supports (DIN EN 1465) depending on temperature:

![Graph 1](image1)

Shear strengths in MPa of bismaleimide film 307 on stainless steel and aluminum supports (DIN EN 1465) depending on temperature:

![Graph 2](image2)