Structalit® 5890 is a black thermal cure 1-C glob-top product that cures fast at low temperatures and features excellent heat conductivity as well as good shock resistance. Please store at 5 °C for 6 months.

Technical Data

Color: black
Resin: 1K-Epoxy
Filler: approx. 50% quartz

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25 °C) [Pa·s] PE-Norm P001: 300 to 400
Flash point [°C] PE-Norm P050: > 100
Density [g/cm³] PE-Norm P003: approx. 1.5

Thermical Curing

<table>
<thead>
<tr>
<th>Time (minutes)</th>
<th>Temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>150</td>
</tr>
<tr>
<td>10</td>
<td>120</td>
</tr>
<tr>
<td>20</td>
<td>110</td>
</tr>
<tr>
<td>45</td>
<td>100</td>
</tr>
</tbody>
</table>

CURED PROPERTIES

Temperature Resistance [°C] PE-Norm P030: -40 to 180
Hardness [Shore D] PE-Norm P052: 80 to 90
Volume resistivity [Ohm x cm] ASTM-D-257-93: 1E+16
Water Absorption [mass-%] PE-Norm P053: < 0.08
Tg [°C] (DSC) PE-Norm P009: 110 to 130
CTE [ppm/K] PE-Norm P017: 35
Dielectric Constant [10kHz] PE-Norm P054: 3.3
Thermal conductivity [W/m·K] ASTM 1530: 0.8
Dielectric Strength [kV/mm] PE-Norm P055: 18.2

As a rule, the guidelines for application, storage and so on contained in our general Data Sheet on Structalit® apply.

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Mechanical Data

Lap Shear Strength (Steel/Steel) [MPa]  
[PE-Norm P013]  approx. 22.3