‘HTM’ Thermally Conductive Silicone Sponge

J-Flex ‘HTM’ Thermally Conductive Silicone Sponge is ideal for gaskets and pads, where compressibility and good heat transfer is required.

Thermal conductivity is provided by the addition of fillers, such as ceramic or boron nitride particles, to premium grade expanded closed cell silicone sponge.

**Uses:**
- Used to cool heat generating electronic components by transferring heat to heat sinks and metal housings for dissipation.
- Used to deliver heat for heat sealing and hot stamping applications used in the packaging of food products and drugs.
- Used to heat seal small plastic containers - the base silicone rubber compound resists sticking to melted plastics and most hot melt adhesives, providing a release surface.

**Temperature Range:**
-40°C to +200°C continuous

**Availability:**
- From 3mm to 40mm thicknesses.
- In sheets 1000mm x 1000mm square *(though some special sheet sizes can be supplied - please ask).*
- Available with smooth or fabric impression surface finish.
- Available with or without our high temperature adhesive backing.
- Die cut pieces and heat transfer pads can be supplied to order.

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TYPICAL VALUE</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compound Ref:</td>
<td>JF/HTM/Sponge</td>
<td>Norm</td>
</tr>
<tr>
<td>Density</td>
<td>0.4/0.45 gr/m³</td>
<td>DIN 53479</td>
</tr>
<tr>
<td>Tensile</td>
<td>3.5 MPa</td>
<td>DIN 53504</td>
</tr>
<tr>
<td>Elongation @ Break</td>
<td>250%</td>
<td>DIN 53504</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40°C to +200°C continuous</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>Light Green</td>
<td></td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>Mean average after test = 0.0695W / (m.k.)</td>
<td></td>
</tr>
</tbody>
</table>

The material was tested in accordance with BS874: Appendix C : 1973, by the heatflow meter method and expressed in ‘SI’ units. Tests carried out @ 123ºC (mean temperature).

**Dimensional Tolerances:** are typically class 3 as standard, unless otherwise stated. Class 2 and Class 1 tolerances on request, in most instances.

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