Modus Advanced, Inc.’s WesTherm™ Film-GP is a composite of silicone rubber and fiberglass. The material is flame retardant and is specially formulated for use as a thermally conductive insulator. The primary use for the material is to electrically isolate power sources from heat sinks. Film-GP has excellent mechanical and physical characteristics. Surfaces are pliable and allow complete surface contact with excellent heat dissipation. The product actually improves its thermal resistance with age. The reinforcing fiberglass provides excellent cut-through resistance. It is non-toxic and resists damage from cleaning agents.

**APPLICATIONS**
- Power supplies
- Automotive electronics
- Power semiconductors
- Motor controls

**FEATURES AND BENEFITS**
- Thermal Conductivity 0.90 W/m-k
- Thermal Resistance improves with age
- Designed for electrical isolating applications

**ELECTRICAL**
- Dielectric Breakdown Voltage (Vac): 3500, 4500
- Dielectric Constant (100 Hz): 5.5
- Volume Resistivity (Ohm-meter): 1011
- Flame Rating: V-O

**THERMAL**
- Thermal Conductivity (W/m-k): 0.9

**AVAILABILITY**
- Die-cut parts, with or without pressure sensitive adhesive

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Reinforced Carrier</td>
<td>Fiberglass</td>
</tr>
<tr>
<td>Thickness (inch) / (mm)</td>
<td>Imperial Value: 0.007, 0.009; Metric Value: 0.178, 0.229</td>
</tr>
<tr>
<td>Hardness (Shore A)</td>
<td>85</td>
</tr>
<tr>
<td>Breaking Strength (lbs/inch)</td>
<td>Imperial Value: 30; Metric Value: 5</td>
</tr>
<tr>
<td>Elongation (% at 45° to Warp and Fill)</td>
<td>54</td>
</tr>
<tr>
<td>Tensile Strength (psi) / (MPa)</td>
<td>Imperial Value: 3000; Metric Value: 20</td>
</tr>
<tr>
<td>Continuous Use Temp (°F) / (°C)</td>
<td>Imperial Value: -76 to 356; Metric Value: -60 to 180</td>
</tr>
</tbody>
</table>
FILM-GP THERMAL PERFORMANCE VS. PRESSURE

<table>
<thead>
<tr>
<th>Pressure (psi)</th>
<th>10</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Impedance 0.007&quot;</td>
<td>1.82</td>
<td>1.42</td>
<td>1.13</td>
<td>0.82</td>
<td>0.54</td>
</tr>
<tr>
<td>TO-220 Thermal Performance 0.007&quot; (W)</td>
<td>6.62</td>
<td>5.93</td>
<td>5.14</td>
<td>4.38</td>
<td>3.61</td>
</tr>
<tr>
<td>Thermal Impedance 0.009&quot;</td>
<td>2.34</td>
<td>1.83</td>
<td>1.45</td>
<td>1.05</td>
<td>0.69</td>
</tr>
<tr>
<td>TO-220 Thermal Performance 0.009&quot; (W)</td>
<td>8.51</td>
<td>7.62</td>
<td>6.61</td>
<td>5.63</td>
<td>4.64</td>
</tr>
</tbody>
</table>

CUSTOMERS ALSO SEARCHED:
- gap filler
- thermal material
- thermal interface materials
- thermal putty
- thermal conductive pad
- gapfiller
- thermal gap pad
- thermal gap filler
- thermal interface pad
- thermal materials
- thermal silicon
e- heat transfer pad
- thermally conductive pad
- thermally conductive pads
- silicone gap filler
- conductive pads
- thermal pad material
- silicone thermal pad
- thermally conductive rubber
- what is a thermal pad

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer that converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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