

## Electrolube® GFP150FG

### Thermally Conductive Gap Filling Pad

#### DESCRIPTION

**Electrolube® GFP150FG** is a silicone based, thermally conductive and electrically isolating gap filling pad with a thermal conductivity of 1.5 W/m-K. Due to its flexibility and softness, the **GFP150FG** is highly suitable for applications where height differences need to be adjusted. The material is reinforced with fiberglass for additional strength and ease of handling.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

#### FEATURES AND BENEFITS

- Thermal conductivity of 1.5 W/m-K; aids rapid heat transfer over uneven surfaces
- Very soft, requires low compression force to ensure good wet-out
- Fiberglass reinforced for additional strength and ease of handling
- Available in a range of thicknesses and die-cut formats

#### APPROVALS

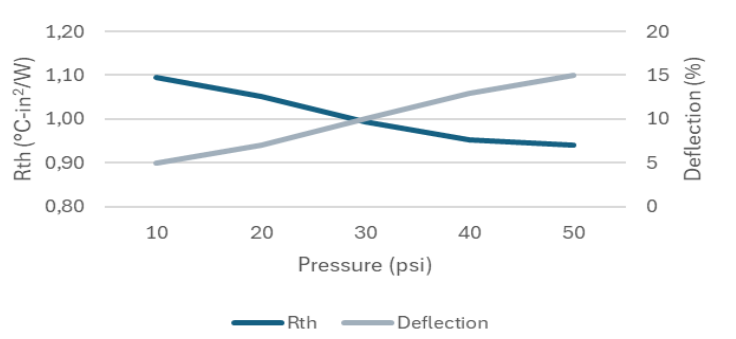
Standard	Status
RoHS	Compliant
REACH	Compliant

#### PRODUCT INFORMATION

GFP150FG is typically converted into customer specific shapes and sizes.  
Standard sheet size is 320mm x 320mm (12.6 x 12.6").  
Other thicknesses are available upon request.

**TYPICAL PROPERTIES**

Category	Result	Unit	Test Method
<b>Physical Properties</b>			
Color	Pink		Visual
Standard Thickness Range	0.5 to 5.0	mm	-
Natural Tack	1 side		-
Density	2.6	g/cc	ASTM D792
Hardness	18	Shore 00	ASTM D2240
Operating Temperature Range	-60 to 180	°C	-
Deflection Rates 10 psi 30 psi 50 psi	5 10 15	%	ASTM D5470 Modified
Flammability Rating	V-0		UL94
<b>Electrical Properties</b>			
Dielectric Breakdown	12	kV/mm	ASTM D149
Volume Resistivity	>10 <sup>11</sup>	Ohm - cm	ASTM D257
<b>Thermal Properties</b>			
Thermal Conductivity	1.5	W/m-K	ASTM D5470
Thermal Impedance at 10 psi 30 psi 50 psi	1.094 0.993 0.941	°C-inch <sup>2</sup> /W	ASTM D5470

Category	Result	Unit	Test Method																		
Rth and Deflection versus pressure	 <table border="1"> <caption>Rth and Deflection versus pressure</caption> <thead> <tr> <th>Pressure (psi)</th> <th>Rth (°C-in<sup>2</sup>/W)</th> <th>Deflection (%)</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>1.10</td> <td>5</td> </tr> <tr> <td>20</td> <td>1.05</td> <td>8</td> </tr> <tr> <td>30</td> <td>1.00</td> <td>11</td> </tr> <tr> <td>40</td> <td>0.96</td> <td>13</td> </tr> <tr> <td>50</td> <td>0.94</td> <td>15</td> </tr> </tbody> </table>			Pressure (psi)	Rth (°C-in <sup>2</sup> /W)	Deflection (%)	10	1.10	5	20	1.05	8	30	1.00	11	40	0.96	13	50	0.94	15
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**APPLICATION GUIDELINES**

Remove protective liner before application.

**ADDITIONAL INFORMATION**

**Shelf Life:** 60 Months

The product should be tested to ensure its suitability for the end application conditions.

**SAFETY & WARNING**

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

**CONTACT INFORMATION**

[www.macdermidalpha.com](http://www.macdermidalpha.com)

<p><b>North America</b> 140 Centennial Avenue Piscataway, NJ 08854 1.800.367.5460</p>	<p><b>Europe</b> Ashby Park Coalfield Way Ashby de la Zouch Leicestershire, LE65 1JR, UK 44.01530.41960</p>	<p><b>Asia</b> 8/F., Two Sky Parc 51 Hung To Road Kwun Tong, Kowloon, Hong Kong, SAR China 852.2500.5365</p>
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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