eGRAF® HITHERM™ high performance thermal interface materials (TIMs) are designed for long life, mission critical applications with extreme heat cycles. HITHERM™ TIMs are made of flexible graphite specifically engineered for demanding lighting, computing and power electronics applications.

- **Consistent, reliable thermal performance** enabling zero maintenance applications
- **Will not low or pump out** under any thermal extremes, thermal cycles, power again and power cycling or part orientation
- **No degradation in performance** from initial install and over the life of the application, reducing PM and improving MTTF
- **Assembly-ready** foil form factor eliminates dispensing and cleaning processes
- **Easy installation** removes the need for Burn-in or re-torque, enabling a single step install
- “**NASA certified**” minimal outgassing prevents fouling of optics in lighting applications

### CHARACTERISTIC

<table>
<thead>
<tr>
<th></th>
<th>HT-1200</th>
<th>HT-2500</th>
<th>HT-C3200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MINIMUM CLAMPING FORCE</strong></td>
<td>180 kPa • 30 PSI</td>
<td>90 kPa • 15 PSI</td>
<td>100 kPa • 15 PSI</td>
</tr>
<tr>
<td><strong>SURFACE COMPENSATION @ 700 KPA (100 PSI)</strong></td>
<td>Up to 0.021 mm roughness Near flat surface</td>
<td>Up to 0.015 mm roughness Near flat surface</td>
<td>Up to 0.030 mm roughness Up to 0.1 mm flatness compensation</td>
</tr>
<tr>
<td><strong>MATERIAL COMPRESSION @ 700 KPA (100 PSI)</strong></td>
<td>4% of starting thickness</td>
<td>6% of starting thickness</td>
<td>70% of starting thickness</td>
</tr>
<tr>
<td><strong>OUTGASSING LOSSES TML[1]</strong></td>
<td>&lt;0.1%</td>
<td>1.3%</td>
<td>&lt;0.1%</td>
</tr>
</tbody>
</table>

Notes: [1] E595 total mass loss (TML) test results of bare HITHERM™ TIMs
Material Options

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<tr>
<td>MATERIAL OPTIONS</td>
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<td>FLAMMABILITY RATING</td>
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Material Performance

When determining which grade and thickness of HITHERM™ TIMs will work for your application, the effective thermal impedance is the critical factor. The thermal impedance is the combination of the thermal resistance at the contact surfaces and the bulk resistance of the TIM. For additional information, please reference Technical Data Sheets 318 and 319 for more information.

Our global team of Applications Engineers are knowledgeable about graphite and applications spanning multiple industries. These include metallurgical casting, electronics, chemical, nuclear, defense/aerospace, solar, LED, semiconductor, and other high temperature processes.

Regardless of your product design phase (concept, prototyping, or mass production), we offer technical answers to some of your most challenging problems with a fast response time.

Please contact a NeoGraf Applications Engineer today at neograf.com/contact.