## DOGLIDE® GA

### Product description
Graphite material

### Standard colour
black

### Main applications
Thermal insulation parts with gliding effect for machine engineering and process industry

### Delivery program
Sheets, panels and highly precise machined parts and finished components

### Thermal characteristics

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Standard</th>
<th>Unit</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature, continuous</td>
<td>-</td>
<td>°C</td>
<td>600</td>
</tr>
<tr>
<td>Operation temperature, short-term</td>
<td>-</td>
<td>°C</td>
<td>600</td>
</tr>
<tr>
<td>Coeff. of linear thermal expansion</td>
<td>DIN 51045</td>
<td>$10^{-6}$ x K$^{-1}$</td>
<td>4</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>DIN 52612</td>
<td>W/mK</td>
<td>50</td>
</tr>
</tbody>
</table>

### Physical characteristics

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Standard</th>
<th>Unit</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity</td>
<td>ISO 1183</td>
<td>g/cm$^3$</td>
<td>1.8</td>
</tr>
</tbody>
</table>

### Mechanical characteristics

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Standard</th>
<th>Unit</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength at 23 °C</td>
<td>ISO 604</td>
<td>N/mm$^2$</td>
<td>125</td>
</tr>
<tr>
<td>Flexural strength at 23 °C</td>
<td>ISO 178</td>
<td>N/mm$^2$</td>
<td>55</td>
</tr>
<tr>
<td>Modul of elasticity</td>
<td>ISO 178</td>
<td>N/mm$^2$</td>
<td>12000</td>
</tr>
</tbody>
</table>

### Gliding characteristics

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Standard</th>
<th>Unit</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sliding friction coefficient</td>
<td>-</td>
<td>-</td>
<td>0.1</td>
</tr>
</tbody>
</table>

DOGLIDE GA can not be used for electrical insulation.

The standard values shown in this data sheet are measured by standard test methods. Depending on operation terms and dimensions the material properties can differ from these values.

Please contact our applications and sales engineers to clarify the suitability of the material for your application.

Issue: 11/2014