**Material data of SIGRAFINE® R7140H**

<table>
<thead>
<tr>
<th>Typical properties</th>
<th>Units</th>
<th>Test standards</th>
<th>Values*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average grain size</td>
<td>µm</td>
<td>ISO 13320</td>
<td>150</td>
</tr>
<tr>
<td>Bulk density</td>
<td>g/cm³</td>
<td>DIN IEC 60413/204</td>
<td>1.53</td>
</tr>
<tr>
<td>Open porosity</td>
<td>Vol. %</td>
<td>DIN 66133</td>
<td>18</td>
</tr>
<tr>
<td>Medium pore entrance diameter</td>
<td>µm</td>
<td>DIN 66133</td>
<td>12</td>
</tr>
<tr>
<td>Rockwell hardness HR₁₀/₆₀</td>
<td></td>
<td>DIN IEC 60413/303</td>
<td>85</td>
</tr>
<tr>
<td>Resistivity</td>
<td>µΩm</td>
<td>DIN IEC 60413/402</td>
<td>55</td>
</tr>
<tr>
<td>Flexural strength</td>
<td>MPa</td>
<td>DIN IEC 60413/501</td>
<td>15</td>
</tr>
<tr>
<td>Compressive strength</td>
<td>MPa</td>
<td>DIN 51910</td>
<td>50</td>
</tr>
<tr>
<td>Dynamic modulus of elasticity</td>
<td>MPa</td>
<td>DIN 51915</td>
<td>7 x 10⁷</td>
</tr>
<tr>
<td>Thermal expansion (20 – 200°C)</td>
<td>K⁻¹</td>
<td>DIN 51909</td>
<td>3.5 x 10⁻⁶</td>
</tr>
<tr>
<td>Thermal conductivity (20°C)</td>
<td>Wm⁻¹K⁻¹</td>
<td>DIN 51908</td>
<td>4</td>
</tr>
<tr>
<td>Ash content</td>
<td>ppm</td>
<td>DIN 51903</td>
<td>max. 0.2 %</td>
</tr>
</tbody>
</table>

* Typical average values of different rectangular and round block sizes. The actual individual block values might vary depending on dimension and format. For any engineering/design purposes please always contact our technical sales team.