## Geon™ Vinyl Flexible C6500

**Flexible Polyvinyl Chloride**

### Key Characteristics

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Material Status</strong></td>
<td>Commercial: Active</td>
</tr>
<tr>
<td><strong>Regional Availability</strong></td>
<td></td>
</tr>
<tr>
<td>Africa &amp; Middle East</td>
<td>Europe</td>
</tr>
<tr>
<td>Asia Pacific</td>
<td>Latin America</td>
</tr>
<tr>
<td></td>
<td>North America</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>General Purpose</td>
</tr>
<tr>
<td></td>
<td>Medium Gloss</td>
</tr>
<tr>
<td><strong>Uses</strong></td>
<td>General Purpose</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Forms</strong></td>
<td>Pellets</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Processing Method</strong></td>
<td>Extrusion</td>
</tr>
<tr>
<td></td>
<td>Injection Molding</td>
</tr>
</tbody>
</table>

### Technical Properties

#### Physical

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.34</td>
<td>1.34 g/cm³</td>
<td>ASTM D792</td>
</tr>
</tbody>
</table>

#### Mechanical

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (100% Strain)</td>
<td>450 psi</td>
<td>3.10 MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Strength (Break)</td>
<td>1180 psi</td>
<td>8.14 MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Elongation (Break)</td>
<td>420 %</td>
<td>420 %</td>
<td>ASTM D638</td>
</tr>
</tbody>
</table>

#### Elastomers

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tear Strength</td>
<td>190 lbf/in</td>
<td>33.3 kN/m</td>
<td>ASTM D624</td>
</tr>
<tr>
<td>Compression Set (73°F (23°C), 22.0 hr)</td>
<td>19 %</td>
<td>19 %</td>
<td>ASTM D395</td>
</tr>
<tr>
<td>Clash-Berg Modulus</td>
<td>4800 psi</td>
<td>33.1 MPa</td>
<td>ASTM D1043</td>
</tr>
<tr>
<td>-62°F (-52°C)</td>
<td>45000 psi</td>
<td>310 MPa</td>
<td></td>
</tr>
</tbody>
</table>

#### Hardness

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shore A</td>
<td>65</td>
<td>65</td>
<td>ASTM D2240</td>
</tr>
<tr>
<td>Shore A, 15 sec</td>
<td>58</td>
<td>58</td>
<td></td>
</tr>
</tbody>
</table>

#### Thermal

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brittleness Temperature</td>
<td>-52.0 °F</td>
<td>-46.7 °C</td>
<td>ASTM D746</td>
</tr>
</tbody>
</table>

### Processing Information

#### Injection

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing (Melt) Temp</td>
<td>370 to 390 °F</td>
<td>188 to 199 °C</td>
</tr>
</tbody>
</table>

#### Extrusion

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value (English)</th>
<th>Typical Value (SI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Temperature</td>
<td>335 to 345 °F</td>
<td>168 to 174 °C</td>
</tr>
</tbody>
</table>

### Notes

1. Typical values are not to be construed as specifications.
2. 20 in/min (510 mm/min)
3. Die C, 20 in/min (510 mm/min)