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## PEEK™ 450FC30

| PROPERTY  | NOMINAL VALUES                                | TEST METHOD            |
|---|---|------------------------|
| <b>Physical</b>                                       |   |                        |
| Density – Specific Gravity (Crystalline)              | 1.44  | ASTM D792              |
| Water Absorption (24 hr @ 73°F)                       | 0.10 %  | ASTM D570              |
| <b>Mechanical</b>                                     |   |                        |
| Tensile Strength<br>@ 73°F (break)<br>@ 482°F (break) | 20,590 psi<br>3,625 psi                       | ASTM D638<br>(5mm/min) |
| Elongation at Break (@ 73°F)                          | 3 %   | ASTM D638<br>(5mm/min) |
| Flexural Modulus<br>@ 73°F<br>@ 248°F<br>@ 482°F      | 1,421,000 psi<br>1,160,000 psi<br>435,000 psi | ASTM D790              |
| Flexural Strength<br>@ 73°F<br>@ 482°F                | 30,450 psi<br>5,220 psi                       | ASTM D790              |
| Izod Impact Strength (@ 73°F)<br>Notched<br>Unnotched | 1.69 ft-lb/in<br>10.2 ft-lb/in                | ASTM D256              |
| <b>Thermal</b>  |   |                        |
| Melt Point  | 644 °F  | DSC                    |
| Glass Transition Temperature, Tg<br>(onset value)     | 289 °F  | DSC                    |
| Melt Flow Index (400°C/10 kg)                         | 12 g/10 min                                   | ASTM D1238             |
| Coefficient of Thermal Expansion                      | 1.2 10 <sup>-5</sup> °F <sup>-1</sup>         | ASTM D696              |
| Heat Deflection Temperature (264 psi)                 | 530 °F  | ASTM D648              |
| UL Continuous Use Temperature<br>(Mechanical)         | 464 °F  | UL746B                 |

\*PEEK is a registered trademark of Victrex plc.

\*\*Typical values only. Actual properties of individual batches will vary within specifications limits.