



Pyramid KD2152

Polyetheretherketone, 30% Glass Filled

| General | ASTM No. | US Value | SI Unit |
|---|-----------------|-----------------|-------------------|
| Form | --- | Pellets | |
| Composition | --- | Resin | |
| Filler Content (Nominal Value) | --- | 30% | |
| Specific Gravity | D792 | 1.51 | |
| Linear Mold Shrinkage | D955 | 0.02 | |
| Water Absorption (24hr. @ 23 °C, %) | D570 | <0.1 | |
| Mechanical | | | |
| Tensile Strength (Break) | D638 | 16 Ksi | 110 Mpa |
| Tensile Modulus | D638 | 1059 Ksi | 7.3 Gpa |
| Tensile Elongation (Break), % | D638 | 3% | |
| Flexural Strength (yield) | D790 | 28 Kpsi | 193 Mpa |
| Flexural Modulus | D790 | 1200 Ksi | 8.4 Gpa |
| Hardness, Rockwell M | D2240 | M104 | Shore D91 |
| Thermal | | | |
| Melting Point, °F | DSC/D3418 | 644 °F | 340 °C |
| Tg (Glass Transition), °F | DSC/D3418 | 289 °F | 143 °C |
| Flammability Rating | UL 94 | V-0 | V-0 |
| Thermal Conductivity, BTU-In/Hr-ft2-°F | F443/C177 | 1.73 | 0.25 W/m-K |
| CLTE, linear μin/in - °F (<Tg) | D696/E831 | 33 | 59.4 μ m/m-°C |

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