



PEKK Plus[®] KK4150-NT

Polyaryletherketone, High Flow, 30% Glass Filled

| General | ASTM No. | US Value | SI Unit |
|---|-----------------------|-----------------|-------------------|
| Form | --- | Pellets | Pellets |
| Specific Gravity | D792 | 1.5 | 1.5 |
| Water Absorption (24hr. @ 23 °C, %) | D570 | 0.04% | 0.04% |
| Linear Mold Shrinkage, in/in | D955 | 0.003 | 0.003 |
| Mechanical | | | |
| Tensile Strength | D638/D3039/ D3039M | 27 kpsi | 186 MPa |
| Tensile Modulus | D638/D3039/ D3039M | 1.8 Mpsi | 12.4 GPa |
| Elongation (Break), % | D638/D3039/ D3039M | 2.0% | 2.0% |
| Flexural Strength | D790 | 37 kpsi | 255 Mpa |
| Flexural Modulus | D790 | 1.6 Mpsi | 11 Gpa |
| Izod, Notched, ft-lb/in @ 1/8" | D256 | 1.8 | 0.08 |
| Hardness, Rockwell M | D785/D2240 | 103 | 103 |
| Thermal | | | |
| Melting Point, °F | DSC/D3418 | 680 | 360 °C |
| Tg °F | DSC/D3418 | 350 | 177 °C |
| CLTE, linear μin/in - °F (<Tg) | D696/E831 | 8.9 | 16 μ m/m - °C |
| HDT@ 264 psi, °F | DMA/D648 | 610 | 321. °C |
| Electrical | | | |
| Dielectric Strength V/mil | D149 | 600 | 236 V/cm |
| Dielectric Constant @1Khz | D150 | 3.3 | 3.3 |
| Dissipation Factor @1Khz | D150 | 0.004 | 0.004 |
| Volume Resistivity ohm/cm x 10¹⁶ | D257 | 1 Ω in | 2.5 Ω cm |
| Surface Resistivity ohm/sq x 10¹⁶ | D257 | 2 Ω in | 5.1 Ω cm |



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