

Gharda Chemicals G-PAEK™ 1200P Ultra High Performance PEK Polymer

Category : Polymer , Thermoplastic , Polyketone

Material Notes:

Product Details: Ultra High performance thermoplastic material, unreinforced Poly Aryl Ether Ketone (G-PAEK), semi-crystalline, coarse powder for extrusion compounding, FDA food contact compliant, easy flow, Color natural milky white
Particle Size Distribution: D(0.1)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gharda-Chemicals-G-PAEK-1200P-Ultra-High-Performance-PEK-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	
Viscosity	200 cP @Shear Rate 1000 1/s	200 cP @Shear Rate 1000 1/s	CR Viscosity at 6 Min; Capillary Rheometer
Crystallinity	40 %	40 %	DSC

Mechanical Properties	Metric	English	Comments
Tensile Strength	105 MPa	15200 psi	ASTM D638
Elongation at Break	10 - 15 %	10 - 15 %	ASTM D638
Tensile Modulus	4.20 GPa	609 ksi	ASTM D638
Flexural Strength	185 - 190 MPa	26800 - 27600 psi	ASTM D790
Flexural Modulus	4.10 GPa	595 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	370 - 372 °C	698 - 702 °F	DSC
Glass Transition Temp, Tg	152 - 154 °C	306 - 309 °F	DSC/onset
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

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