

Performance Polymers IPS II PPL-C4150 PEKK (Polyetherketoneketone) Linear 30 % Glass Fiber Reinforced Molding Grade

Category : Polymer , Thermoplastic , Polyketone , PEKK, Reinforced

Material Notes:

Amber pellets Information provided by Infinite Polymer System II.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Performance-Polymers-IPS-II-PPL-C4150-PEKK-Polyetherketoneketone-Linear-30-Glass-Fiber-Reinforced-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	103	103	ASTM D785
Tensile Strength at Break	186 MPa	27000 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Modulus of Elasticity	12.4 GPa	1800 ksi	ASTM D638
Flexural Yield Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Yield Strength	220 MPa	31900 psi	ASTM D695
Shear Strength	220 MPa	31900 psi	ASTM D732
Izod Impact, Notched	0.940 J/cm @Thickness 3.17 mm	1.76 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 µm/m-°C	8.89 µin/in-°F	Below glass transition temp; ASTM D696
Thermal Conductivity	0.440 W/m-K	3.05 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	360 °C	680 °F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	321 °C	610 °F	ASTM D648

Glass Transition Temp, Tg Thermal Properties	160 °C Metric	320 °F English	DSC Comments
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	2.00e+16 ohm	2.00e+16 ohm	ASTM D257
Dielectric Constant	3.3	3.3	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	23.6 kV/mm	599 kV/in	ASTM D149
Dissipation Factor	0.0040	0.0040	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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