

Performance Polymers IPS II PPL-C4250 PEKK (Polyetherketoneketone) Linear 30% Carbon Fiber Reinforced Molding Grade

Category : Polymer , Thermoplastic , Polyketone , PEKK, Reinforced

Material Notes:

Black 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-C4250-PEKK-Polyetherketoneketone-Linear-30-Carbon-Fiber-Reinforced-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	248 MPa	36000 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ASTM D638
Modulus of Elasticity	28.0 GPa	4060 ksi	ASTM D638
Flexural Yield Strength	386 MPa	56000 psi	ASTM D790
Flexural Modulus	24.0 GPa	3480 ksi	ASTM D790
Izod Impact, Notched	0.560 J/cm @Thickness 3.17 mm	1.05 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction	0.16	0.16	ASTM D1894
Coefficient of Friction, Static	0.22	0.22	ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.56 $\mu\text{in}/\text{in}\cdot\text{°F}$	Below glass transition temp; ASTM D696
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	160 °C	320 °F	DSC
Flammability, UL94	V-0	V-0	

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