

Performance Polymers IPS II PPL-C4270 PEKK (Polyetherketoneketone) Linear 40% 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-C4270-PEKK-Polyetherketoneketone-Linear-40-Carbon-Fiber-Reinforced-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	324 MPa	47000 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ASTM D638
Modulus of Elasticity	48.0 GPa	6960 ksi	ASTM D638
Flexural Yield Strength	448 MPa	65000 psi	ASTM D790
Flexural Modulus	31.0 GPa	4500 ksi	ASTM D790
Izod Impact, Notched	0.940 J/cm @Thickness 3.17 mm	1.76 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	9.40 J/cm @Thickness 3.17 mm	17.6 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction	0.162	0.162	ASTM D1894
Coefficient of Friction, Static	0.218	0.218	ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 µm/m-°C	5.00 µin/in-°F	Below glass transition temp; ASTM D696
Melting Point	360 °C	680 °F	DSC
Deflection Temperature at 1.8 MPa (264 psi)	327 °C	621 °F	ASTM D648
Glass Transition Temp, Tg	160 °C	320 °F	DSC

Thermal Properties	Metric	English	Comments
Flammability UL 94	V-0	V-0	

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