

Performance Polymers IPS II PPL-C4219 PEKK (Polyetherketoneketone) Linear Wear Grade

Category : Polymer , Thermoplastic , Polyketone , PEKK, Reinforced

Material Notes:

Black pellets; Carbon fiber/PTFE/Graphite compound Information provided by Infinite Polymer System II.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Performance-Polymers-IPS-II-PPL-C4219-PEKK-Polyetherketoneketone-Linear-Wear-Grade.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	172 MPa	24900 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Modulus of Elasticity	12.4 GPa	1800 ksi	ASTM D638
Flexural Yield Strength	248 MPa	36000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Compressive Yield Strength	220 MPa	31900 psi	ASTM D695
Shear Strength	138 MPa	20000 psi	ASTM D732
Izod Impact, Notched	0.560 J/cm @Thickness 3.17 mm	1.05 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.70 J/cm @Thickness 3.17 mm	12.6 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction	0.17	0.17	ASTM D1894
Coefficient of Friction, Static	0.25	0.25	ASTM D1894
Taber Abrasion, mg/1000 Cycles	23	23	based on 11.5 mg lost per 1Kg load/500 cycles/CS-10 wheel; ASTM D4060

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	360 °C	680 °F	DSC
Maximum Service Temperature, Air	260 °C	500 °F	UL Continuous Use Temp.
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	ASTM D648
Glass Transition Temp, Tg	160 °C	320 °F	DSC
Flammability, UL94	V-0	V-0	

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