

Hippe PEEK BG Polyetheretherketone with carbon fiber, PTFE and graphite

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

The addition to PEEK of carbon fiber, PTFE and graphite results in a material with high mechanical strength, a low coefficient of sliding friction and enhanced resistance to abrasion. The outstanding tribological properties of PEEK BG make it a particularly suitable material for friction bearing applications. Information provided by Hippe.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hippe-PEEK-BG-Polyetheretherketone-with-carbon-fiber-PTFE-and-graphite.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	DIN 53 479
Water Absorption at Saturation	0.10 %	0.10 %	DIN 53 495

Mechanical Properties	Metric	English	Comments
Elongation at Break	3.0 %	3.0 %	DIN 53 455
Tensile Modulus	10.0 GPa	1450 ksi	DIN 53 457
Flexural Modulus	8.10 GPa	1170 ksi	from bending test; DIN 53 457
Coefficient of Friction, Dynamic	0.11	0.11	Against steel, p=0.05 N/mm ² , v=0.6 m/s, hardened and ground
Tear Strength Test	118	118	in MPa; DIN 53 455

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 μm/m-°C	12.2 μin/in-°F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	
Melting Point	334 °C	633 °F	DIN 53 736
Maximum Service Temperature, Air	250 °C	482 °F	Continuous use
	300 °C	572 °F	Short Periods
Deflection Temperature at 1.8 MPa (264 psi)	277 °C	531 °F	ISO-R 75 Method A
Glass Transition Temp, Tg	143 °C	289 °F	dynamic; DIN 53 736
Flammability, UL94	V-0	V-0	

Descriptive Properties	Value	Comments
Color	black	

Descriptive Properties	Value	Comments
Resistance to hot water, suds	resistant	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China