

Isoflon PEEK Polyetheretherketone

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Unreinforced

Material Notes:

Materials with strong mechanical and electrical performances under high temperatures. Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PEEK-Polyetheretherketone.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	DIN 53479
Water Absorption	0.50 %	0.50 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength	92.0 MPa	13300 psi	DIN 53455
Elongation at Break	50 %	50 %	DIN 53455
Tensile Modulus	3.60 GPa	522 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	26.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Melting Point	334 $\text{Å}^\circ\text{C}$	633 $\text{Å}^\circ\text{F}$	DIN 53736
Maximum Service Temperature, Air	250 $\text{Å}^\circ\text{C}$	482 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	160 $\text{Å}^\circ\text{C}$	320 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-50.0 $\text{Å}^\circ\text{C}$	-58.0 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Flammability, UL94	V-0 @Thickness 1.45 mm	V-0 @Thickness 0.0571 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482
Dielectric Constant	3.2 @Frequency 1000 Hz	3.2 @Frequency 1000 Hz	DIN 53483

Dielectric Strength Electrical Properties	25.0 - 30.0 kV/mm Metric	635 - 762 kV/in English	DIN 53481 Comments
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Descriptive Properties	Value	Comments
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Color	Cream	
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