

Technetics Group Amicon™ PEEK (Unverified Data**)

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

Material Notes:

Information provided by Technetics Group (formerly Plastomer Technologies)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Technetics-Group-Amicon-PEEK-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hours; ASTM D570 (2)
Water Absorption at Saturation	0.50 %	0.50 %	ASTM D570 (2)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength, Ultimate	110 MPa	16000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Modulus of Elasticity	3.45 GPa	500 ksi	ASTM D638
Flexural Strength	172 MPa	25000 psi	ASTM D790
Flexural Modulus	4.14 GPa	600 ksi	ASTM D790
Compressive Strength	138 MPa	20000 psi	ASTM D695
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256 type "A"
Coefficient of Friction	0.40	0.40	ASTM PTM 55007
K (wear) Factor	755 x 10 ⁻⁸ mm ³ /N-M	375 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	QTM 55010
Limiting Pressure Velocity	0.298 MPa-m/sec	8500 psi-ft/min	4:1 safety factor

Thermal Properties	Metric	English	Comments
CTE, linear	46.8 µm/m-°C	26.0 µin/in-°F	ASTM E-831 (TMA)
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	249 °C	480 °F	
Flammability, UL94	V-0	V-0	ASTM UL-94
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3 @Frequency 1e+6 Hz	3.3 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	18.9 kV/mm	480 kV/in	ASTM D149
Dissipation Factor	0.0030 @Frequency 1e+6 Hz	0.0030 @Frequency 1e+6 Hz	ASTM D150

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