

Technetics Group Amicon™ PEEK 30% Glass Filled (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-30-Glass-Filled-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.51 g/cc	1.51 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hours; ASTM D570 (2)
Water Absorption at Saturation	0.30 %	0.30 %	ASTM D570 (2)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	86	86	ASTM D2240
Tensile Strength, Ultimate	103 MPa	15000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Modulus of Elasticity	6.21 GPa	900 ksi	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Compressive Strength	179 MPa	26000 psi	ASTM D695
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256 type "A"

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	12.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	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 Strength	19.7 kV/mm	500 kV/in	ASTM D149

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