

Quadrant EPP KETRON® MD PEEK, A Metal-Detectable Polyetheretherketone

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-KETRON-MD-PEEK-A-Metal-Detectable-Polyetheretherketone.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Water Absorption	0.060 %	0.060 %	IMMERSION; 24HRS.; ASTM D570 2
Water Absorption at Saturation	0.30 %	0.30 %	ASTM D570 2

Mechanical Properties	Metric	English	Comments
Tensile Strength	86.2 MPa	12500 psi	ASTM D638
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Elongation at Break	10 %	10 %	ASTM D638
Tensile Modulus	4.14 GPa	600 ksi	ASTM D792
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Flexural Strength	152 MPa	22000 psi	ASTM D790
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Flexural Modulus	4.34 GPa	630 ksi	ASTM D790
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Compressive Modulus	0.138 GPa	20.0 ksi	
	@Temperature 22.8 °C	@Temperature 73.0 °F	
	2.90 GPa	420 ksi	
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Shear Strength	82.7 MPa	12000 psi	ASTM D732
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Coefficient of Friction, Dynamic	0.32	0.32	QTM 55007
Limiting Pressure Velocity	0.420 MPa-m/sec	12000 psi-ft/min	(with 4:1 safety factor applied); QTM 55007

Thermal Properties	Metric	English	Comments
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