

Quadrant EPP Ketron® CM HPV PEEK (1331) Compression Molded High Pressure Velocity Polyetherether Ketone

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-CM-HPV-PEEK-1331-Compression-Molded-High-Pressure-Velocity-Polyetherether-Ketone.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Water Absorption	0.070 %	0.070 %	IMMERSION; 24HRS; ASTM D570 2

Mechanical Properties	Metric	English	Comments
Tensile Strength	54.5 MPa	7900 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	3.65 GPa	530 ksi	ASTM D638
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Flexural Modulus	4.83 GPa	700 ksi	ASTM D790
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Compressive Strength	138 MPa	20000 psi	ASTM D625
	@Strain 10.0 %, Temperature 22.8 °C	@Strain 10.0 %, Temperature 73.0 °F	
Coefficient of Friction, Dynamic	0.20	0.20	QTM 55007
Limiting Pressure Velocity	1.23 MPa-m/sec	35000 psi-ft/min	(with 4:1 safety factor applied); QTM 55010

Thermal Properties	Metric	English	Comments
Melting Point	340 °C	644 °F	ASTM D3418

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