

Quadrant EPP Ketron® CM GF30 Compression Molded, 30% Glass Reinforces Polyetherether Ketone(ASTM Product Data Sheet)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Ketron-CM-GF30-Compression-Molded-30-Glass-Reinforces-Polyetherether-KetoneASTM-Product-Data-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	Immersion, 24hr; ASTM D570(2)
Water Absorption at Saturation	0.50 %	0.50 %	Immersion; ASTM D570(2)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	103	103	ASTM D785
Hardness, Rockwell R	124	124	ASTM D785
Hardness, Shore D	88	88	ASTM D2240
Tensile Strength	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Tensile Modulus	5.86 GPa	850 ksi	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	6.21 GPa	900 ksi	ASTM D790
Compressive Strength	131 MPa	19000 psi	10% Def.; ASTM D695
Compressive Modulus	3.45 GPa	500 ksi	ASTM D695
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256 Type A

Thermal Properties	Metric	English	Comments
CTE, linear	25.2 $\mu\text{m/m-}^{\circ}\text{C}$	14.0 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM E831
	@Temperature -40.0 - 149 $^{\circ}\text{C}$	@Temperature -40.0 - 300 $^{\circ}\text{F}$	
Thermal Conductivity	0.429 W/m-K	2.98 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM F433
Melting Point	340 $^{\circ}\text{C}$	644 $^{\circ}\text{F}$	Crystalline, Peak; ASTM D3418

Maximum Service Temperature, Air Thermal Properties	249 °C Metric	480 °F English	Long Term Comments
Deflection Temperature at 1.8 MPa (264 psi)	232 °C	450 °F	ASTM D648
Flammability, UL94	V-0	V-0	1/8 inch (Estimated Rating)

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	EOS/ESD S11.11
Dielectric Strength	21.7 kV/mm	550 kV/in	Short Term; ASTM D149

Compliance Properties	Metric	English	Comments
3A-Dairy	No	No	
Canada AG	No	No	
FDA	No	No	
NSF	No	No	
USDA	No	No	
USP Class VI	No	No	

Chemical Resistance Properties	Metric	English	Comments
Acids, Strong (pH 1-3)	Limited	Limited	
Acids, Weak	Acceptable	Acceptable	
Alcohols	Acceptable	Acceptable	
Alkalies, Strong (pH 11-14)	Acceptable	Acceptable	
Alkalies, Weak	Acceptable	Acceptable	
Chlorinated Solvents	Acceptable	Acceptable	
Conductive / Static Dissipative	No	No	
Continuous Sunlight	Limited	Limited	
Hot Water / Steam	Acceptable	Acceptable	
Hydrocarbons - Aliphatic	Acceptable	Acceptable	
Hydrocarbons - Aromatic	Acceptable	Acceptable	
Inorganic Salt Solutions	Acceptable	Acceptable	

Ketones, Esters Chemical Resistance Properties	Acceptable Metric	Acceptable English	Comments
Descriptive Properties	Value	Comments	
Color	Natural		
Machinability	7	1-10, 1=Easier to Machine	

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