

Ketron® PEEK UHP320

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Ketron® PEEK UHP320 is a Polyetheretherketone (PEEK) product. It can be processed by extrusion and is available in North America.

Characteristics include:

Flame Rated

Chemical Resistant

High Purity

General Information			
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	High Purity		
	Hydrocarbon Resistant		
	Solvent Resistant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.10	%	
Saturation	0.50	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	100		
R-Scale	126		
Durometer Hardness (Shore D)	85		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength (Ultimate)	110	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength (Yield)	172	MPa	ASTM D790
Compressive Modulus	3450	MPa	ASTM D695
Compressive Strength (10% Strain)	138	MPa	ASTM D695
Shear Strength	55.2	MPa	ASTM D732
Coefficient of Friction (vs. Steel - Static)	0.40		Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	249	°C	
Limiting Pressure Velocity ¹	0.876	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	340	°C	ASTM D3418
CLTE - Flow ² (-40 to 149°C)	4.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.25	W/m/K	ASTM F433
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	> 1.0E+13	ohms	Internal Method
Dielectric Strength ⁴	19	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.30		ASTM D150
Dissipation Factor (1 MHz)	3.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	V-0		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		
3.	EOS/ESD S11.11		
4.	Method A (Short-Time)		

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