

Ketron® CM HPV PEEK

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Ketron® CM HPV PEEK is a Polyetheretherketone (PEEK) product filled with carbon fiber, graphite fiber and teflon® ptfe. It can be processed by compression molding and is available in North America. Typical application: Engineering/Industrial Parts.

Characteristics include:

Flame Rated

Chemical Resistant

General Information			
Filler / Reinforcement	Carbon Fiber		
	Graphite Fiber		
	Teflon® PTFE		
Features	Acid Resistant		
	Alcohol Resistant		
	Alkali Resistant		
	Hydrocarbon Resistant		
	Solvent Resistant		
Uses	Bearings		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3650	MPa	ASTM D638
Tensile Strength (Ultimate)	54.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength (Yield)	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	54	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	249	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	249	°C	
CLTE - Flow ¹ (-40 to 149°C)	4.9E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	< 1.0E+5	ohms	Internal Method

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	V-0		UL 94
NOTE			
1.	68°F		
2.	EOS/ESD S11.11		

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