Ketron® PEEK CM CA30

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Ketron® PEEK CM CA30 is a Polyetheretherketone (PEEK) product filled with 30% carbon fiber. It can be processed by compression molding and is available in North America.
Characteristics include:
Flame Rated
Chemical Resistant

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Acid Resistant Alcohol Resistant Alkali Resistant Hydrocarbon Resistant Solvent Resistant		
Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.42	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.15	%	
Saturation	0.50	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	108		
R-Scale	125		
Durometer Hardness (Shore D)	91		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9650	MPa	ASTM D638
Tensile Strength (Ultimate)	110	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength (Yield)	159	MPa	ASTM D790
Compressive Modulus	4000	MPa	ASTM D695
Compressive Strength (10% Strain)	193	MPa	ASTM D695
Shear Strength	75.8	MPa	ASTM D732
Coefficient of Friction (vs. Steel - Static)	0.24		Internal Method
Wear Factor	210	10^-8 mm³/N·m	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact	75	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	232	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	249	°C	
Limiting Pressure Velocity [1]	0.596	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	340	°C	ASTM D3418
CLTE - Flow [2] (-40 to 149°C)	4.1E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.92	W/m/K	ASTM F433
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+5	ohms	ASTM D257
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		

Recommended distributors for this material

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