Ketron® PEEK 30% GF Compression

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Compression molded 30% Glass fiber reinforced polyetheretherketone. The addition of glass fibers significantly reduces the expansion rate and increases the flexural modulus of PEEK. This grade is ideal for structural applications that require improved strength, stiffness or stability, especially at temperatures above 300°F.

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Acid Resistant Alcohol Resistant Alkali Resistant Good Abrasion Resistance Good Chemical Resistance Good Stability Good Stiffness Good Strength Good Thermal Stability Good Wear Resistance Hydrocarbon Resistant Hydrolytically Stable Low Moisture Absorption Solvent Resistant
Uses	Bearings Bushings General Purpose Housings Pump Parts Sealing Devices Seals Structural Parts Valves/Valve Parts
Forms	Customizable Forms Disc Preformed Parts Rod Tubing

Processing Method	Compression Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.65	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	103		
R-Scale	124		
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5860	MPa	ASTM D638
Tensile Strength (Ultimate)	51.0	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength (Yield)	82.7	MPa	ASTM D790
Compressive Modulus	3450	MPa	ASTM D695
Compressive Strength (10% Strain)	131	MPa	ASTM D695
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)	232	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	249	°C	
Peak Crystallization Temperature (DSC)	340	°C	ASTM D3418
CLTE - Flow [1] (-40 to 149°C)	2.5E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.43	W/m/K	ASTM F433
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity [2]	> 1.0E+13	ohms	Internal Method
Dielectric Strength [3]	22	kV/mm	ASTM D149
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		
3.	Method A (Short-Time)		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China