Ketron® PEEK 30% GF (EXTRUSION)

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Extruded 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 to No Water Absorption Salt Water/Spray Resistant Solvent Resistant
Uses	Bearings Bushings General Purpose Housings Pump Parts Sealing Devices Seals Structural Parts Valves/Valve Parts
Forms	Customizable Forms Preformed Parts Profiles Rod Sheet

Tubing

Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.51	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.10	%	
Saturation	0.30	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	103		
R-Scale	126		
Durometer Hardness (Shore D)	86		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength (Ultimate)	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength (Yield)	159	MPa	ASTM D790
Compressive Modulus	3790	MPa	ASTM D695
Compressive Strength (10% Strain)	152	MPa	ASTM D695
Shear Strength	96.5	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	43	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)	2.2E-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]	20	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)		

infringement occurs, please contact us immediately.

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