

Ketron® PEEK-GF30

Polyetheretherketone

Quadrant Engineering Plastic Products

Message:

Ketron® PEEK-GF30 is a Polyetheretherketone (PEEK) product filled with 30% glass fiber. It is available in Europe. Typical application: Engineering/Industrial Parts.

Characteristics include:

Flame Rated

Creep Resistant

Good Dimensional Stability

High Stiffness

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Creep Resistance		
	Good Dimensional Stability		
	High Stiffness		
Uses	Structural Parts		
Appearance	Natural Color		
Forms	Disc		
	Preformed Parts		
	Rod		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.14	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	99		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	270	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6300	MPa	ISO 527-2/1B/1
Tensile Stress (Break)	90.0	MPa	ISO 527-2/1B/5
Tensile Strain (Break)	5.0	%	ISO 527-2/1B/5
Compressive Stress			ISO 604/1
2% Strain	81.0	MPa	
1% Strain	41.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	35	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	250	°C	
-- 2	310	°C	
Melting Temperature (DSC)	340	°C	
CLTE - Flow			
23 to 100°C	3.0E-5	cm/cm/°C	
23 to 150°C	3.0E-5	cm/cm/°C	
> 150°C	6.5E-5	cm/cm/°C	
Thermal Conductivity (23°C)	0.43	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	24	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.20		
1 MHz	3.60		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	2.0E-3		
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	40	%	ISO 4589-2
NOTE			
1.	20000 hrs		
2.	Short periods		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any 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



WECHAT