

SUSTAPEEK GF 30

Polyetheretherketone
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High rigidity and good dimensional stability
- Very low creep tendency
- Very high continuous service temperature
- Typical fields of application
- Precision and electrical engineering
- Aircraft construction
- Chemical industry

General Information			
Features	Good Creep Resistance		
	Good Dimensional Stability		
	High Rigidity		
Uses	Aircraft Applications		
	Electrical/Electronic Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.51	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.14	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	89		ISO 868
Ball Indentation Hardness	250	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	315	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-20.0 to 250	°C	
-- 2	< 310	°C	
CLTE - Flow	3.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.43	W/m/K	DIN 52612

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	20	kV/mm	IEC 60243-1
Dielectric Constant	3.20		IEC 60250
Dissipation Factor (50 Hz)	1.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	V-0		
6.00 mm	V-0		
NOTE			
1.	Long Term		
2.	Short Term		

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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

