

SUSTAPPE GF 30

Polyphenylene Ether
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High rigidity
- Low creep tendency
- High dimensional stability
- Typical fields of application
- Mechanical engineering
- Vehicle construction
- Electronics industry

General Information			
Features	Good Creep Resistance		
	Good Dimensional Stability		
	High Rigidity		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.040	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	87		ISO 868
Ball Indentation Hardness	200	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2
Tensile Stress (Yield)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	135	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-20.0 to 100	°C	
-- 2	< 110	°C	
Specific Heat	1300	J/kg/°C	DIN 52612
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		
NOTE			
1.	Long Term		
2.	Short Term		

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