

SUSTANAT PC GF 20

Polycarbonate
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
 - High heat deflection temperature
 - Self-extinguishing
 - High dimensional accuracy
 - Typical fields of application
 - Mechanical engineering
 - Vehicle construction
 - Electrical industry

General Information			
Features	Self Extinguishing		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.15	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	85		ISO 868
Ball Indentation Hardness	180	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	138	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-30.0 to 120	°C	
-- 2	< 180	°C	
CLTE - Flow	3.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.22	W/m/K	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	35	kV/mm	IEC 60243-1
Dielectric Constant	3.30		IEC 60250
Dissipation Factor (50 Hz)	0.010		IEC 60250
Comparative Tracking Index	175	V	IEC 60112
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

