

SUSTANAT PC

Polycarbonate
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
High dimensional stability
Low moisture absorption
Excellent rigidity
Typical fields of application
Electrical industry
Safety engineering
Vehicle construction

General Information			
Features	Good Dimensional Stability		
	High Rigidity		
	Low Moisture Absorption		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Safety Equipment		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Ball Indentation Hardness	130	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Break)	80	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20	kJ/m ²	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	-40.0 to 115	°C	
-- 2	< 180	°C	
CLTE - Flow	7.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.21	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	30	kV/mm	IEC 60243-1
Dielectric Constant	3.00		IEC 60250
Dissipation Factor (50 Hz)	1.0E-3		IEC 60250
Comparative Tracking Index	275	V	IEC 60112
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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