

SUSTASON PSU

Polysulfone

Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High rigidity at good dimensional stability
- Very high continuous service temperature
- Outstanding hydrolysis-resistance
- Typical fields of application
- Electrical and electronics industry
- Medical technology
- Household appliance industry

General Information			
Features	Good Dimensional Stability		
	High Rigidity		
	Hydrolysis Resistant		
Uses	Appliances		
	Electrical/Electronic Applications		
	Household Goods		
	Medical/Healthcare Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.24	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)	85		ISO 868
Ball Indentation Hardness	155	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	175	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-50.0 to 160	°C	
-- 2	< 180	°C	
CLTE - Flow	5.5E-5	cm/cm/°C	DIN 53752

Thermal Conductivity	0.26	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	30	kV/mm	IEC 60243-1
Dielectric Constant	3.20		IEC 60250
Dissipation Factor (50 Hz)	1.0E-3		IEC 60250
Comparative Tracking Index	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	V-0		
NOTE			
1.	Long Term		
2.	Short Term		

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