

Roechling SUSTAPEI

Polyether Imide
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
High rigidity also at high temperatures
Very low smoke emissions
High resistance to high energy radiation
Typical fields of application
Electrical and electronic industries
Medical technology
Aerospace engineering

General Information			
Features	High Rigidity		
	Low Smoke Emission		
	Radiaton Shielding		
Uses	Aerospace Applications		
	Electrical/Electronic Applications		
	Medical Devices		
	Medical/Healthcare Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	86		ISO 868
Ball Indentation Hardness	220	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	110	MPa	ISO 527-2
Tensile Strain (Break)	12	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-50.0 to 170	°C	
-- 2	< 210	°C	
CLTE - Flow	4.5E-5	cm/cm/°C	DIN 53752

Specific Heat	1100	J/kg/°C	DIN 52612
Thermal Conductivity	0.24	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	3.20		IEC 60250
Dissipation Factor (50 Hz)	1.5E-3		IEC 60250
Comparative Tracking Index	150	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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