

SUSTAPEI MG

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
 - Medical technology

General Information			
Features	High Rigidity		
	Low Smoke Emission		
	Radiaton Shielding		
Uses	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
Dielectric Constant	3.20		IEC 60250
Dissipation Factor (50 Hz)	1.5E-3		IEC 60250
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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