

SUSTASON PES

Polyethersulfone

Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Very high dimensional stability
- High flame retardance and self-extinguishing
- Microwaveable
- Typical fields of application
- Electrical and electronics industry
- Medical technology
- Food industry

General Information			
Features	Flame Retardant		
	Good Dimensional Stability		
	Self Extinguishing		
Uses	Electrical/Electronic Applications		
	Medical/Healthcare Applications		
	Non-specific Food Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	%	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	2700	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m²	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 180	°C	
-- 2	< 220	°C	
CLTE - Flow	5.5E-5	cm/cm/°C	DIN 53752
Specific Heat	1100	J/kg/°C	DIN 52612

Thermal Conductivity	0.18	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms·cm	IEC 60093
Electric Strength	25	kV/mm	IEC 60243-1
Dielectric Constant	3.90		IEC 60250
Dissipation Factor (50 Hz)	2.0E-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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