

SUSTADUR PET

Polyethylene Terephthalate
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Very high dimensional stability
- Very low moisture absorption
- Excellent creep behavior
- Typical fields of application
- Mechanical engineering
- Shipbuilding industry
- Electrical and electronics industry

General Information			
Features	Good Dimensional Stability		
	Low Moisture Absorption		
Uses	Electrical/Electronic Applications		
	Engineered Applications		
	Marine Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.25	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	84		ISO 868
Ball Indentation Hardness	170	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Yield)	85.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-20.0 to 115	°C	
-- 2	< 180	°C	
Melting Temperature	255	°C	ISO 11357-3
CLTE - Flow	6.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.28	W/m/K	DIN 52612

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+18	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant	3.40		IEC 60250
Dissipation Factor (50 Hz)	1.0E-3		IEC 60250
Comparative Tracking Index	600	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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