

SUSTADUR PBT

Polybutylene Terephthalate
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
 - Low moisture absorption
 - Excellent rigidity
 - High wear resistance
 - Typical fields of application
 - Mechanical engineering
 - Building industry
 - Leisure and sport industries

General Information			
Features	Good Wear Resistance		
	High Rigidity		
	Low Moisture Absorption		
Uses	Building Materials		
	Construction Applications		
	Engineered Applications		
	Sporting Goods		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.25	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	130	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	50	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	67.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-30.0 to 120	°C	
-- 2	< 150	°C	
Melting Temperature	225	°C	ISO 11357-3
CLTE - Flow	1.5E-4	cm/cm/°C	DIN 53752
Specific Heat	1500	J/kg/°C	DIN 52612
Thermal Conductivity	0.27	W/m/K	DIN 52612

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	16	kV/mm	IEC 60243-1
Dielectric Constant	3.30		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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