

SUSTAPEEK MOD

Polyetheretherketone

Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Excellent sliding and abrasion behaviour
- High mechanical strength
- High dimensional stability
- Typical fields of application
- Mechanical engineering
- Conveyor industry
- Precision and electrical industries

General Information	
Features	Good Abrasion Resistance
	Good Dimensional Stability
	High Strength
	Low Friction

Uses	Conveyors
	Electrical/Electronic Applications
	Engineered Applications

Physical	Nominal Value	Unit	Test Method
Density	1.46	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.15	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	85		ISO 868
Ball Indentation Hardness	220	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4900	MPa	ISO 527-2
Tensile Stress (Yield)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	293	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-30.0 to 250	°C	
-- 2	< 310	°C	
Melting Temperature	343	°C	ISO 11357-3

CLTE - Flow	3.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.24	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7 to 1.0E+9	ohms	IEC 60093
Volume Resistivity	1.0E+7 to 1.0E+9	ohms·cm	IEC 60093
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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