

SUSTAMID 46

Polyamide 46
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High continuous service temperature
- Excellent sliding properties
- High heat deflection temperature
- Typical fields of application
- Mechanical engineering
- Electrical industry
- Vehicle construction

General Information			
Features	Low Friction		
Uses	Automotive Applications		
	Electrical/Electronic Applications		
	Engineered Applications		
	High Temperature Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	3.7	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	84		ISO 868
Ball Indentation Hardness	168	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	95.0	MPa	ISO 527-2
Tensile Strain (Break)	30	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 135	°C	
-- 2	< 200	°C	
Melting Temperature	295	°C	ISO 11357-3
CLTE - Flow	8.0E-5	cm/cm/°C	DIN 53752
Thermal Conductivity	0.30	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	22	kV/mm	IEC 60243-1
Dielectric Constant	3.80		IEC 60250
Dissipation Factor (50 Hz)	0.13		IEC 60250
Comparative Tracking Index	400	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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