

SUSTAMID 6 GC

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
Highly wear-resistant
Excellent sliding properties
High tensile strength and rigidity
Typical fields of application
Mechanical engineering
Conveyor technology
Electrical industry

General Information			
Features	Good Wear Resistance		
	High Rigidity		
	High Strength		
	Low Friction		
Uses	Conveyors		
	Electrical/Electronic Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	3.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Ball Indentation Hardness	175	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	> 40	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 3.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 95.0	°C	
-- 2	< 160	°C	
Melting Temperature	220	°C	ISO 11357-3

CLTE - Flow	8.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.23	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant	3.90		IEC 60250
Dissipation Factor (50 Hz)	0.020		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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