

SUSTAMID 6G PLUS

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
Excellent rigidity
Low deformation under pressure load
High wear resistance
Typical fields of application
Mechanical engineering
Steel industry
Electrical industry

General Information			
Features	Good Wear Resistance		
	High Rigidity		
Uses	Electrical/Electronic Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Ball Indentation Hardness	190	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2
Tensile Stress (Yield)	76.0	MPa	ISO 527-2
Tensile Strain (Break)	> 7.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 2.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 110	°C	
-- 2	< 170	°C	
Melting Temperature	218	°C	ISO 11357-3
CLTE - Flow	6.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.27	W/m/K	DIN 52612

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
3.00 mm	HB	
6.00 mm	V-2	
NOTE		
1.	Long Term	
2.	Short Term	

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