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/cm³	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/m²	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	

Recommended distributors for this material

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