

SUSTAMID 6 GF 30

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
Excellent rigidity
High compressive strength
High heat deflection temperature
Typical fields of application
Mechanical engineering
Vehicle construction
Mining and steel-producing industries

General Information			
Features	Good Compressive Strength		
	High Rigidity		
Uses	Automotive Applications		
	Engineered Applications		
	Mining Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.35	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)	86		ISO 868
Ball Indentation Hardness	210	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2
Tensile Stress (Yield)	100	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	140	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-30.0 to 110	°C	
-- 2	< 180	°C	
Melting Temperature	220	°C	ISO 11357-3
CLTE - Flow	6.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1500	J/kg/°C	DIN 52612

Thermal Conductivity	0.28	W/m/K	DIN 52612
Flammability	Nominal Value		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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