

SUSTAMID 12 GF 30

Polyamide 12
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High rigidity
- High hardness
- High dimensional stability
- Typical field of application
- Mechanical engineering
- Electrical industry
- Chemical industry

General Information			
Features	Good Dimensional Stability		
	High Hardness		
	High Rigidity		
Uses	Electrical/Electronic Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	79		ISO 868
Ball Indentation Hardness	125	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4200	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	130	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 80.0	°C	
-- 2	< 150	°C	
Melting Temperature	178	°C	ISO 11357-3
CLTE - Flow	5.0E-5	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Dielectric Constant	4.10		IEC 60250
Dissipation Factor (50 Hz)	0.031		IEC 60250
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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