

SUSTAMID 12

Polyamide 12
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Low moisture absorption
- High stress crack resistance
- High impact strength
- Typical fields of application
- Mechanical engineering
- Vehicle construction
- Textile industry

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Low Moisture Absorption		
Uses	Automotive Applications		
	Engineered Applications		
	Textile Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	0.80	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	78		ISO 868
Ball Indentation Hardness	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Tensile Strain (Break)	200	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	50.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-50.0 to 80.0	°C	
-- 2	< 140	°C	
Melting Temperature	178	°C	ISO 11357-3
CLTE - Flow	1.0E-4	cm/cm/°C	DIN 53752

Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.30	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	26	kV/mm	IEC 60243-1
Dielectric Constant	3.80		IEC 60250
Dissipation Factor (50 Hz)	0.040		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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