

SUSTAMID 12 MO

Polyamide 12
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
 - Low moisture absorption
 - High UV resistance
 - High chemical resistance
 - Typical fields of application
 - Mechanical engineering
 - Vehicle construction
 - Building industry

General Information			
Features	Good Chemical Resistance		
	Good UV Resistance		
	Low Moisture Absorption		
Uses	Building Materials		
	Construction Applications		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	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)	150	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	15	kJ/m ²	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
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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