

SUSTAMID 6G

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
High impact strength
Excellent sliding properties
Very high abrasion resistance
Typical fields of application
Mechanical engineering
Conveyor industry
Construction machinery

General Information			
Features	Good Abrasion Resistance		
	High Impact Resistance		
	Low Friction		
Uses	Construction Applications		
	Conveyors		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	83		ISO 868
Ball Indentation Hardness	180	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Stress (Yield)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	> 45	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 3.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 110	°C	
-- 2	< 170	°C	
Melting Temperature	216	°C	ISO 11357-3
CLTE - Flow	8.0E-5	cm/cm/°C	DIN 53752

Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.25	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		

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