

SUSTAMID 6 GC MO

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Good sliding and abrasion resistance properties
- High UV resistance
- High mechanical strength
- Typical fields of application
- Mechanical engineering
- Transportation and conveyor industry
- Construction machinery

General Information			
Features	Good Abrasion Resistance		
	Good UV Resistance		
	High Strength		
	Low Friction		
Uses	Construction Applications		
	Conveyors		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	3.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Ball Indentation Hardness	180	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	> 40	%	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 95.0	°C	
-- 2	< 160	°C	
Melting Temperature	220	°C	ISO 11357-3

CLTE - Flow	8.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.23	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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