

SUSTAMID 6G LL

Polyamide 6
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
 - Good sliding and wear resistance properties
 - Excellent rigidity
 - Good machinability
 - Typical fields of application
 - Mechanical engineering
 - Transportation and conveyor technology
 - Packing industry

General Information			
Features	Good Wear Resistance		
	High Rigidity		
	Low Friction		
	Machinable		
Uses	Conveyors		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	80		ISO 868
Ball Indentation Hardness	155	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress (Yield)	64.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	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)	95.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 110	°C	
-- 2	< 170	°C	
Melting Temperature	209	°C	ISO 11357-3
CLTE - Flow	8.0E-5	cm/cm/°C	DIN 53752

Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.27	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant	3.70		IEC 60250
Dissipation Factor (50 Hz)	0.020		IEC 60250
Flammability	Nominal Value	Unit	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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