

SUSTAMID 6G OL

Polyamide 6
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
 - Excellent sliding properties
 - Self-lubricating
 - Improved "stick-slip" properties
 - Typical fields of application
 - Mechanical engineering
 - Conveyor industry
 - Packing industry

General Information			
Features	Low Friction		
	Self Lubricating		
Uses	Conveyors		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Ball Indentation Hardness	165	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Yield)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 4.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 110	°C	
-- 2	< 160	°C	
Melting Temperature	213	°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	HB	
NOTE		
1.	Long Term	
2.	Short Term	

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