

SUSTAMID 6 FG

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High impact strength
- Excellent sliding properties
- Meets the requirements of the regulation (EC) No. 1935/2004 on materials intended to come in contact with food
- Typical fields of application
- Food industry

General Information			
Features	Food Contact Acceptable		
	High Impact Resistance		
	Low Friction		
Uses	Non-specific Food Applications		
Agency Ratings	EC 1935/2004		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm³	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	170	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)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 3.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- ¹	-40.0 to 85.0	°C	
-- ²	< 160	°C	
Melting Temperature	220	°C	ISO 11357-3
CLTE - Flow	9.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1700	J/kg/°C	DIN 52612
Thermal Conductivity	0.23	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant	3.90		IEC 60250
Dissipation Factor (50 Hz)	0.020		IEC 60250
Comparative Tracking Index	600	V	IEC 60112

NOTE

1. Long Term
2. Short Term

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