

SUSTAMID 6

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- High impact strength
- Excellent noise and vibration absorption
- Excellent siding properties
- Typical fields of application
- Mechanical engineering
- Vehicle construction
- Food processing industry

General Information			
Features	High Impact Resistance		
	Low Friction		
	Noise Damping		
	Vibration Damping		
Uses	Automotive Applications		
	Engineered Applications		
	Non-specific Food Applications		
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
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		
NOTE			
1.	Long Term		
2.	Short Term		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

