

SUSTAMID 6G PD 120

Polyamide 6

Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Extremely high impact strength
- Fracture-proof also at sub-zero temperatures
- Good sliding and abrasion resistance properties
- Typical fields of application
- Construction machinery
- Mechanical engineering
- Transporation and conveyor industry

General Information	
Features	Good Abrasion Resistance
	High Impact Resistance
	Low Friction
	Low Temperature Impact Resistance

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)	2.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Ball Indentation Hardness	172	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress (Yield)	72.0	MPa	ISO 527-2
Tensile Strain (Break)	50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	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	215	°C	ISO 11357-3

CLTE - Flow	8.0E-5	cm/cm/°C	DIN 53752
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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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

