

SUSTAMID 6G HS

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
Good resistance to thermal aging
High rigidity
High UV resistance
Typical fields of application
Mechanical engineering
Sheet metal and steel industries
Conveyor industry

General Information			
Features	Good Thermal Aging Resistance		
	Good UV Resistance		
	High Rigidity		
Uses	Conveyors		
	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.15	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	170	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3700	MPa	ISO 527-2
Tensile Stress (Yield)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	> 15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 2.5	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 120	°C	
-- 2	< 180	°C	
Melting Temperature	216	°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	V-2		
NOTE			
1.	Long Term		
2.	Short Term		

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