

SUSTAMID 6G GK

Polyamide 6
Röchling Sustaplast SE & Co. KG

Message:

Product characteristics
High rigidity
Low deformation under pressure load
High heat deflection temperature
Typical fields of application
Mechanical engineering

General Information			
Features	High Rigidity		
Uses	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.16	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)	83		ISO 868
Ball Indentation Hardness	200	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2
Tensile Stress (Yield)	70.0	MPa	ISO 527-2
Tensile Strain (Break)	> 5.0	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	> 100	°C	ISO 75-2/A
Continuous Use Temperature			
-- 1	-40.0 to 110	°C	
-- 2	< 170	°C	
Melting Temperature	218	°C	ISO 11357-3
CLTE - Flow	6.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1600	J/kg/°C	DIN 52612
Thermal Conductivity	0.27	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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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

