

# SUSTAMID 6G MO

Polyamide 6

Röchling Sustaplast SE & Co. KG

## Message:

Product characteristics

High rigidity

High toughness even at high temperatures

High UV resistance

Typical fields of application

Mechanical engineering

Offshore

Steel industry

General Information			
Features	Good Toughness Good UV Resistance High Rigidity		
Uses	Engineered Applications		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	83		ISO 868
Ball Indentation Hardness	185	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2
Tensile Stress (Yield)	82.0	MPa	ISO 527-2
Tensile Strain (Break)	> 35	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 2.5	kJ/m <sup>2</sup>	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 110	°C	
-- 2	< 170	°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	HB	
NOTE		
1.	Long Term	
2.	Short Term	

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