

Technical Data Sheet

Sustamid[®] 6G MO black

PA 6 G

Typical characteristics

- High rigidity
- High toughness even at high temperatures
- UV-resistant
- High absorption of moisture of up to 3 % in standard atmosphere

Typical industries

- Vehicle Construction
- Oil and Gas
- Subsea
- Pipelines
- Mechanical Engineering Industry
- Topside
- Downhole

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,15
Water absorption	DIN EN ISO 62	%	2,5
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	82
Elongation at break	DIN EN ISO 527	%	35
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3500
Notched impact strength	DIN EN ISO 179	kJ / m ²	2,5
Shore hardness	DIN EN ISO 868	scale D	83
Thermal properties			
Melting temperature	ISO 11357-3	°C	216
Thermal conductivity	DIN 52612-1	W / (m * K)	0,25
Thermal capacity	DIN 52612	kJ / (kg * K)	1,70
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	80
Service temperature, long term	Average	°C	-40 ... 110
Service temperature, short term (max.)	Average	°C	170
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	95

