

Technical Data Sheet

Sustamid® 6G OL black

PA 6 G

Typical characteristics

- Self-lubricating
- Good "stick-slip" properties
- Good sliding properties
- High absorption of moisture depending on temperature and humidity

Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,14
Water absorption	DIN EN ISO 62	%	2,0
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	70
Elongation at break	DIN EN ISO 527	%	50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3300
Notched impact strength	DIN EN ISO 179	kJ / m ²	4
Shore hardness	DIN EN ISO 868	scale D	82
Thermal properties			
Melting temperature	ISO 11357-3	°C	213
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	160
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	90

