

## Technical Data Sheet

# Sustaglide® black

PA 6 G

### Typical characteristics

- Good sliding properties
- Good wear properties
- High hardness
- High rigidity

### Typical industries

- Mechanical Engineering Industry
- Food Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,14
Water absorption	DIN EN ISO 62	%	2,0
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	75
Elongation at break	DIN EN ISO 527	%	35
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3400
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	3,5
Shore hardness	DIN EN ISO 868	scale D	81
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	215
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 <sup>-6</sup> / 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

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