

### Technical Data Sheet

## Sustamid® 6G HS black

PA 6 G

#### Typical characteristics

- Good heat ageing resistance
- High stiffness
- UV-resistant
- High absorption of moisture of up to 3 % in standard atmosphere

#### Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,15
Water absorption	DIN EN ISO 62	%	2,5
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / V2
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	75
Elongation at break	DIN EN ISO 527	%	15
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3700
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	2,5
Shore hardness	DIN EN ISO 868	scale D	82
<b>Thermal properties</b>			
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 <sup>-6</sup> / K	80
Service temperature, long term	Average	°C	-40 ... 120
Service temperature, short term (max.)	Average	°C	180
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	95

