

Technical Data Sheet

Sustamid® 6 GF 30 black

PA 6

Typical characteristics

- High heat deflection temperature
- Good noise absorption properties
- Vibration damping
- High abrasion resistance
- High stiffness
- Good compressive strength
- High mechanical strength

Typical industries

- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	1,35
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	85
Elongation at break	DIN EN ISO 527	%	5
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4500
Notched impact strength	DIN EN ISO 179	kJ / m ²	4
Shore hardness	DIN EN ISO 868	scale D	86
Thermal properties			
Melting temperature	ISO 11357-3	°C	220
Thermal conductivity	DIN 52612-1	W / (m * K)	0,28
Thermal capacity	DIN 52612	kJ / (kg * K)	1,50
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	60
Service temperature, long term	Average	°C	-30 ... 110
Service temperature, short term (max.)	Average	°C	180
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	140

