

### Technical Data Sheet

## Sustamid<sup>®</sup> 12 GF 30 natural

PA 12

#### 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
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,25
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	60
Elongation at break	DIN EN ISO 527	%	10
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4000
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	5
Shore hardness	DIN EN ISO 868	scale D	86
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	180
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 <sup>-6</sup> / 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

