

Technical Data Sheet

Sustamid[®] 66 GF 30 black

PA 66

Typical characteristics

- High hardness
- High rigidity
- High heat deflection temperature
- Good dimensional stability
- High absorption of moisture depending on temperature and humidity

Typical industries

- Industrie électronique
- Construction de machines et d'installations

	Test method	Unit	Guideline value
General properties			
Densité	DIN EN ISO 1183-1	g / cm ³	1,32
Water absorption	DIN EN ISO 62	%	1,7
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	260
Thermal conductivity	DIN 52612-1	W / (m * K)	0,24
Thermal capacity	DIN 52612	kJ / (kg * K)	1,50
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	50
Service temperature, long term	Average	°C	-20 ... 120
Service temperature, short term (max.)	Average	°C	200
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	150
Electrical properties			

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Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	10^{13}
Surface resistivity	DIN EN 62631-3-2	Ω	10^{10}
Comparative tracking index	IEC 60112		550
Dielectric constant @ 1MHz	DIN EN IEC 62631-2-1		3,8
Dielectric dissipation factor (1 MHz)	DIN EN IEC 62631-2-1		0,015
Electric strength	IEC 60243-1	kV / mm	25

The following applies to Polyamides: Under the influence of moisture absorption, the mechanical properties change. The material becomes tougher and more resistant to impact, the modulus of elasticity declines. Depending on the environmental atmosphere, the temperature and the period of moisture absorption, only the surface layer is affected by alterations of property to a certain depth. On thick-walled parts, the center area remains unaffected. The short-term maximum application temperature only applies to very low mechanical stress for a few hours. The long-term maximum application temperature is based on the thermal ageing of plastics by oxidation, resulting in a decrease of the mechanical properties. This applies to an exposure to temperatures for at least 5.000 hours causing a 50% loss of the tensile strength from the original value (measured at room temperature). This value says nothing about the mechanical strength of the material at high application temperatures. In case of thick-walled parts, only the surface layer is affected by oxidation from high temperatures. With the addition of antioxidants, a better protection of the surface layer is achieved. In any case, the center area of the material remains unaffected. The minimum application temperature is basically influenced by possible stress factors like impact and/or shock under application. The values stated refer to a minimum degree of impact stress. The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. They serve as information about our products and are presented as a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes that are legally binding. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallization (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values.



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Page 2 / 2 (Dates in DD/MM/YYYY)

