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

- Electronics
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
Density	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			

	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	Ω * 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