Technical data sheet

SUSTAMID® 66

Product characteristics

- · High form stability
- Excellent sliding properties
- High abrasion resistance



Typical fields of application

- Mechanical engineering
- Vehicle construction
- · Electrical industry

	Test method	Unit	Value
General properties			
Density	DIN EN ISO 1183-1	g/cm ³	1,15
Water absorption	DIN EN ISO 62	%	2,8
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / V2
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	85
Elongation at break	DIN EN ISO 527	%	50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3300
Notched impact strength (charpy)	DIN EN ISO 179	kJ/m ²	≥3,0
Ball indentation hardness	DIN EN ISO 2039-1	MPa	180
Shore hardness	DIN EN ISO 868	scale D	83
Thermal properties			
Melting temperature	ISO 11357-3	°C	260
Thermal conductivity	DIN 52612-1	W / (m * K)	0,23
Thermal capacity	DIN 52612	kJ / (kg * K)	1,7
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ K ⁻¹	80
Service temperature, long term	Average	°C	-30 <mark> 95</mark>
Service temperature, short term (max.)	Average	°C	170
Heat deflection temperature	DIN EN ISO 75, method A	°C	100
Electrical properties			
Dielectric constant	IEC 60250		3,8
Dielectric dissipation factor (50Hz)	IEC 60250		0,015
Volume resistivity	IEC 60093	Ω *cm	10 ¹⁵
Surface resistivity	IEC 60093	Ω	10 ¹³
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV/mm	25

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