

Laminated Insulations & Plastics Ltd.

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Nylon Data Sheet

Trade Name:	Sustamid 6 Nylon
DIN EN ISO 1043 Designation:	PA 6
Modification:	None
Colour:	Natural

Properties	Unit	Test Method	Value
General Properties			
Density	g/cm ³	DIN EN ISO 1183-1	1,14
Moisture Absorption			
Saturation in air of 23°C/50% RH	%	DIN EN ISO 62	3,0
Flammability acc.to UL 94		ISO 1210 (UL 94)	HB / HB
(Thickn.3mm/6mm)			
Mechanical Properties			
Yield Point	MPa	DIN EN ISO 527	Test Specimen *dry* 80
Elongation at break	%	DIN EN ISO 527	>50
Tensile modulus of elasticity	MPa	DIN EN ISO 527	3.200
Notched impact strength (Charpy)	KJ/m ²	ISO 179/1eA/Pendel 1J	>3
Ball Indentation hardness	N/mm ²	DIN EN ISO 2039-1	170
Shore – Hardness	Skala D	DIN 53505	82
Thermal Properties			
Melting Temperature	°C	ISO 11357	220
Thermal conductivity	W/(mK)	DIN 52612	0,23
Specific thermal capacity	KJ/(kgK)	DIN 52612	1,7
Coefficient of linear thermal expansion	10 ⁻⁶ K ⁻¹	Average betw.20°C-60°C	90
Service temperature – long-term	°C		-40 up to 85
Service temperature – Short-term, max.	°C		160
Heat deflection temperature, Method A 1.8 MPa	°C	DIN EN ISO 75	75
Electrical Properties			
Dielectric constant, 50 Hz		IEC 60250	3,9
Dielectric dissipation factor, 50 Hz		IEC 60250	0,02
Volume resistivity	Ohm cm	IEC 60093	10 ¹⁵
Surface resistivity	Ohm	IEC 60093	10 ¹³
Comperative tracking index CTI, Sol. A		IEC 60112	600
Dielectric strength	kV/mm	IEC 60243	20

These are typical average values and do not constitute a specification. It is the responsibility of the customer to assess the suitability of the product for use.

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