

**Material Specification
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Nylon 6**General Information – Semi Crystallite Thermoplastic**

Good toughness	High Abrasion Resistance
Very good noise and vibration absorption	High Mechanical Strength
Very good sliding properties	Excellent Machinability
High Absorption of moisture of up to 3% in standard atmosphere.	Good Adhesive Properties

Applications

Mechanical Engineering	Aircraft Construction	Food Processing Industry
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	Test Method	Unit	Guidance Value
General Properties			
Density	DIN EN ISO 1183-1	g/cm ³	1.14
Water Absorption	DIN EN ISO 62	%	3.0
Flammability (Thickness 3mm/6mm)	UL94		HB/HB
Mechanical Properties			
Yield Stress	DIN EN ISO 527	Mpa	80
Elongation at Break	DIN EN ISO 527	%	50
Tensile Modules of Elasticity	DIN EN ISO 527	Mpa	3200
Notched Impact Strength	DIN EN ISO 179	kJ/m ²	3
Shore Hardness	DIN EN ISO 868	Scale D	82
Thermal Properties			
Melting Temperature	ISO 11357-3	°C	220
Thermal Conductivity	DIN 52612-1	W (m * K)	0.23
Thermal Capacity	DIN 52612	kJ (kg * K)	1.70
Coefficient of Linear Thermal Expansion	DIN 53752	10 ⁻⁶ /K	90
Service Temperature, Long Term	Average	°C	-40.....85
Service Temperature, Short Term (max.)	Average	°C	160
Heat Deflection Temperature	DIN EN ISO 75, Verf.A, HDT	°C	75
Electrical Properties			
Dielectric Constant	IEC 60250		3.9
Dielectric Dissipation Factor (50 Hz)	IEC 60250		0.02
Volume Resistivity	DIN EN 62631-3-1	Ω* cm	10 ¹⁵
Surface Resistivity	DIN EN 62631-3-2	Ω	10 ¹⁵
Comparative Tracking Index	IEC 60112		600
Dielectric Strength	IEC 60243	kV/mm	20

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any application. All data relating to suitable uses and description information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The Company holds no legal or contractual responsibility for information supplied

