

Technical datasheet

PA 6 GF30 (Polyamide 6 with 30 % GF**)

Example of application
› bolt; track rollers

Advantages	Disadvantages
› very high hardness › very high resistance › dimensional stability	› high water absorption › not foodstuff resistant

Basic information	Specification
Format	round material: 8 mm up to 100 mm available in 3 m length sheets: 6 mm up to 60 mm available in 3.0 m x 0.62 m 70 mm up to 100 mm available in 2.0 m x 0.62 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1,36	g/cm ³	ISO 1183
Moisture ingress	0,3	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	98	MPa	DIN EN ISO 527
Elongation at break	5	%	DIN EN ISO 527
E-Module	5.700	MPa	DIN EN ISO 527
Notch toughness	n.sp.	kJ/m ²	ISO 179
Rochwellhardness	232	MPa	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.41	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	0.6	K ⁻¹ · 10 ⁻⁴	DIN 53752
	1.2	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	100	°C	
Max. operating temperature, short-term	160	°C	
Min. operating temperature, long-term	-25	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	10 ¹²	Ω	DIN IEC 60093
Puncture resistance	n.sp.	kV/mm	DIN EN 60243

Legend
n.sp. = not specified **GF = glass fibre

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.
*Higher specification on request.

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