Technical datasheet

PA 6.6 GF30 (Polyamide with 30 % GF**)

Example of application
› bolt; track rollers

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

Basic information	Specification
Format	**round material:** 10 mm up to 200 mm available n 3 m length **sheets:** 10 mm up to 100 mm available in 3 m x 0.62 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.29	g/cm^3	ISO 1183
Moisture ingress	5.5	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	100	MPa	DIN EN ISO 527
Elongation at break	50	%	DIN EN ISO 527
E-Module	5.500	MPa	DIN EN ISO 527
Notch toughness	6	kJ/m^2	ISO 179
Rochwellhardness	165	MPa	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.32	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	0.5	K^{-1} · 10^{-4}	DIN 53752
	1.0	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	110	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	-20	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	10^{13}	Ω·cm	DIN IEC 60093
Outer surface coefficient	10^{13}	Ω	DIN IEC 60093
Puncture resistance	30	kV/mm	DIN EN 60243

Legende
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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technical plastics

noltewerk GmbH & Co. KG · Mergenthalerstr. 15 · 48268 Greven · Germany · t +49 (25 71)16-0 · f +49 (25 71)16-402 · info@noltewerk.de · www.noltewerk.de