Technical datasheet

PA 6 G (Cast polyamide 6)

Example of application
› slide roller; slide rails; tack rollers

Advantages	Disadvantages
› very high viscosity › high tensile strength and stiffness › high impact resistance after conditioning	› high water absorption › bad UV-resistance

Basic information	Specification
Format	**round material**: 50 mm up to 1225 mm available in 3 m length **sheets:** 10 mm up to 1000 mm available in 2 m x 1 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.15	g/cm^3	ISO 1183
Moisture ingress	6.5	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	80	MPa	DIN EN ISO 527
Elongation at break	50	%	DIN EN ISO 527
E-Module	3.470	MPa	DIN EN ISO 527
Notch toughness	4	kJ/m^2	ISO 179
Rochwellhardness	165	MPa	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.23	W/(m·K)	DIN 52612
Linear thermal expansion coefficient based on a fixed initial length	0.8	$K^{-1} \cdot 10^{-4}$	DIN 53752
	1.6	mm	At initial length of 1.000 mm and a temperature difference of 20 °C.
Max. operating temperature, long-term	105	°C	
Max. operating temperature, short-term	n.sp.	°C	
Min. operating temperature, long-term	-40	°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	n.sp.	kV/mm	DIN EN 60243

Legend
n.sp. = not specified

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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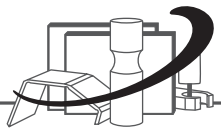

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