Technical datasheet

PA 6 G MO(Molybdenum disulphide-cast polyamide 6)

Example of application
› mechanical engineering; oil and gas industry; steel industry

Advantages	Disadvantages
› high resistance › high viscosity even at high temperatures › good UV-resistance	› high water absorption

Basic information	Specification
Format	**round material**: 50 mm up to 1.225 mm available in 1 up to 3 m length **sheets:** 6 mm up to 120 mm available in 2 m x 1 m 120 mm up to 200 mm available in 1.000 m x 1.250 m

Physical properties	Standard term/Specification*	Unit	Testing method
Density	1.15	g/cm^3	ISO 1183
Moisture ingress	2.5	%	DIN EN ISO 62

Mechanical properties	Standard term/Specification*	Unit	Testing method
Tensile strength	82	MPa	DIN EN ISO 527
Elongation at break	35	%	DIN EN ISO 527
E-Module	3.500	MPa	DIN EN ISO 527
Notch toughness	2.5	kJ/m^2	ISO 179
Rochwellhardness	n.sp.	MPa	DIN EN ISO 2039

Thermal properties	Standard term/Specification*	Unit	Testing method
Thermal conductivity	0.25	W/(m·K)	DIN 52612-1
Linear thermal expansion coefficient based on a fixed initial length	0.8	K^{-1}· 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	110	°C	
Max. operating temperature, short-term	170	°C	
Min. operating temperature, long-term	-40	°C	

Electrical properties	Standard term/Specification*	Unit	Testing method
Resistance	n.sp.	Ω·cm	DIN IEC 60093
Outer surface coefficient	n.sp.	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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technical plastics

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