

Polyamide

General information

Designation	:	Polyamide 6, unreinforced
Abbreviation	ISO 1043 :	PA6
Flammability	UL94 :	V-2, halogen and phosphorus free

Physical data

Density	ISO 1183 :	1.12	g/cm ³
Surface hardness	ISO 2039 :	135	N/mm ²

Mechanical data

Tensile modulus	ISO 527 :	2600	MPa	
Tensile strength	ISO 527 :	80	MPa	
Ultimate strain	ISO 527 :	25	%	
Charpy impact strength	ISO 179 :	NB	kJ/m ²	+23°C
		NB	kJ/m ²	-30°C

Thermal data

Max. application temperature	:	+100	°C	continuously
	:	+130	°C	briefly <10h
Min. application temperature	:	-30	°C	
Glow-Wire-Test	IEC 60695-2-12 :	960 (960)	°C	3.2 (0.8)mm

Chemical resistance

Resistant against mineral oils, fuels, cooling and cutting oils, caustic solutions, diluted organic acids and aqueous solutions of inorganic salts. Not resistant against mineral acids, phenols, halogens, concentrated organic acids, formic acid. Well weatherproof.

AGRO AG

Hunzenschwil, October 25. 2024

This table is arranged to our best knowledge and is to advise you without obligation. All values are approximate values and are based on tests done by our suppliers. Modifications remain reserving.