

Polymer	Characteristics	Application	Quality	Product Number
polyamide 6	PA6 reinforced with glass fibre	injection moulding	prime	105000

Properties (in natural colour at 23°C)	Unit	Test Method	Value
General			
Symbols and abbreviated terms		STN EN ISO 1043-1	PA 6
Density	g/cm ³	STN EN ISO 1183-1	1,33
Type of the filler: GF, GB, MF, G			GF
Stabilisation: TS, LS, K			
Modification: FR, HI, MI, ME			
Colour: NA, F, BK			NA/F
Processing			
Processing method: IM, E	°C		IM
Melting point DSC	°C	STN EN ISO 11357-1	220
Melt temperature range	°C		260-290
Mould temperature range	°C		70-90
Injection pressure	MPa		70-120
Drying: temperature/time	°C/H		80/4
Water content	%	STN EN ISO 3344	0,15
Melt flow rate 230°C/2,16 kg	g/10 min	STN EN ISO 1133	3
Manufacturing shrinkage length / width	%	STN EN ISO 294-4	0,55/1,06
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	170
Elongation	%	STN EN ISO 527-2	3
Tensile modulus	MPa	STN EN ISO 527-2	9600
Flexural modulus	MPa	STN EN ISO 178	8400
Flexural strength	MPa	STN EN ISO 178	235
Charpy impact strength 23°C	kJ/m ²	STN EN ISO 179	85
Charpy impact strength -20°C	kJ/m ²	STN EN ISO 179	75
Charpy notched impact strength 23°C	kJ/m ²	STN EN ISO 179	12
Charpy notched impact strength -20°C	kJ/m ²	STN EN ISO 179	11
Thermal			
Heat deflection temperature	°C	STN EN ISO 75-2 (A)	212
Vicat softening point B	°C	STN EN ISO 306	221
Flammability			
Flammability	°flam.	UL - 94	HB
Glow wire test	°C	STN EN 60695-2-12	650 (3mm)

Electrical			
Comparative tracking index CTI, A	V	STN EN 60112	575
Volume resistivity	Ohm.m	STN 34 6460	5x10 ¹¹
Surface resistivity	Ohm	STN 34 6460	8x10 ¹³
Electric strength	kV/mm	STN EN 60243-2	20

Features

PA 6 for injection moulding, reinforced with 30% of glass fibre, for mouldings with high strength and toughness used in the automotive, electrical, engineering and consumer-goods industry. Application: grips of electrotools, hobby tools, gears, covers of electric appliances, cooling screws of blowers, electromotors, carrying parts in the automotive industry. Delivered in natural mode and in the full RAL colour scale.

Packaging, transportation, storage

The product is packed either in hermetically closed thick-walled 25 kg PE bags placed on a 1.000 kg palette coated by a stretch film, or in PE bag inserted in bigbag placed on a 1.000 kg palette or in PE bag inserted in paper octabin placed on a 1.000 kg palette or in other packaging according to customer requirements. The transport is provided in closed-up vehicles where the material is protected against movement and mechanical damage. The product requires stocking in closed-up, dry places protected against sun and thermal radiation.

NOTE:

Data and values are average measured values, they are intended for technical service advices and can be changed without prior notice.

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