

Polymer	Characteristics	Application	Quality	Product Number
polyamide 66	PA66 reinforced with glass fibre, heat stabilised	injection moulding	prime	380000

Properties (in natural colour at 23°C)	Unit	Test Method	Value
General			
Symbols and abbreviated terms		STN EN ISO 1043-1	PA 66
Density	g/cm ³	STN EN ISO 1183-1	1,39
Type of the filler: GF, GB, MF, G			GF
Stabilisation: TS, LS, K			TS
Modification: FR, HI, MI, ME			
Colour: NA, F, BK			BK
Processing			
Processing method: IM, E	°C		IM
Melting point DSC	°C	STN EN ISO 11357-1	260
Melt temperature range	°C		280-300
Mould temperature range	°C		60-90
Injection pressure	MPa		70-120
Drying: temperature/time	°C/H		80/4
Water content	%	STN EN ISO 3344	0,15
Melt flow rate 275°C/0,325 kg	g/10 min	STN EN ISO 1133	3
Manufacturing shrinkage length / width	%	STN EN ISO 294-4	0,71/1,05
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	200
Elongation	%	STN EN ISO 527-2	2
Tensile modulus	MPa	STN EN ISO 527-2	11000
Flexural modulus	MPa	STN EN ISO 178	10000
Flexural strength	MPa	STN EN ISO 178	265
Charpy impact strength 23°C	kJ/m ²	STN EN ISO 179	90
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	13
Charpy notched impact strength -20°C	kJ/m ²	STN EN ISO 179	12
Thermal			
Heat deflection temperature	°C	STN EN ISO 75-2 (A)	250
Vicat softening point B	°C	STN EN ISO 306	250
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	400
Volume resistivity	Ohm.m	STN 34 6460	1x10 ¹⁵
Surface resistivity	Ohm	STN 34 6460	1x10 ¹⁴
Electric strength	kV/mm	STN EN 60243-2	50

Features

PA66 for injection moulding, reinforced with 33% glass fibre, heat stabilised, suitable for high strength and high impacted mouldings. Used in automotive, engineering and electrical industry, eg. intake pipes, cylinder heads, induction coils, carrying parts in the motor fixing in the motor area. Application: hobby tools, gears, covers of electric tools, cooling water distribution in the automotive industry. Decrease in tensile strength by 50 % after 5000 hours at 170°C. Delivered in black colour.

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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