

Polymer	Characteristics	Application	Quality	Product Number
polyamide 66	PA66 reinforced with glass fibre and glass beads	injection moulding	prime	313000

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	1.36
Type of the filler: GF, GB, MF, G			GF, GB
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	260
Melt temperature range	°C		280-300
Mould temperature range	°C		70-80
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	1
Manufacturing shrinkage length / width	%	STN EN ISO 294-4	1,08/1,07
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	110
Elongation	%	STN EN ISO 527-2	2
Tensile modulus	MPa	STN EN ISO 527-2	7000
Flexural modulus	MPa	STN EN ISO 178	6500
Flexural strength	MPa	STN EN ISO 178	160
Charpy impact strength 23°C	kJ/m ²	STN EN ISO 179	30
Charpy impact strength -20°C	kJ/m ²	STN EN ISO 179	30
Charpy notched impact strength 23°C	kJ/m ²	STN EN ISO 179	5
Charpy notched impact strength -20°C	kJ/m ²	STN EN ISO 179	5
Thermal			
Heat deflection temperature	°C	STN EN ISO 75-2 (A)	230
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	450
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	40

Features

PA66 reinforced with 20% glass fibre and 10 % glass beads. The relation of the anisotropy to the mechanical properties can be changed by the ideal combination of the glass fibre and the glass beads. High surface brightness, low warpage. Manufacturing of parts /mainly in flat form/, throttle valves in air piping. Delivered in 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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