

Polymer	Characteristics	Application	Quality	Product Number
polyamide 66	PA66 reinforced with glass fibre, heat stabilised	injection moulding	prime	308000

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
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	0,74/1,15
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	165
Elongation	%	STN EN ISO 527-2	3
Tensile modulus	MPa	STN EN ISO 527-2	9500
Flexural modulus	MPa	STN EN ISO 178	7400
Flexural strength	MPa	STN EN ISO 178	225
Charpy impact strength 23°C	kJ/m ²	STN EN ISO 179	60
Charpy impact strength -20°C	kJ/m ²	STN EN ISO 179	50
Charpy notched impact strength 23°C	kJ/m ²	STN EN ISO 179	10
Charpy notched impact strength -20°C	kJ/m ²	STN EN ISO 179	10
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	40

Features

PA66 for injection moulding, reinforced with 30 % glass fibre, heat stabilised, 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.

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.

Contact: Sales Department;
 Tel: +421 2 44 259160; fax: +421 2 44259223; E-mail: office@plastcom.sk; Url: www.plastcom.sk