

Polymer	Characteristics	Application	Quality	Product Number
polyamide 66	PA66 reinforced with mineral filler	injection moulding	prime	331000

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			MF
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		280-310
Mould temperature range	°C		80-120
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	1,46/1,49
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	75
Elongation	%	STN EN ISO 527-2	3
Tensile modulus	MPa	STN EN ISO 527-2	4100
Flexural modulus	MPa	STN EN ISO 178	4100
Flexural strength	MPa	STN EN ISO 178	125
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	60
Charpy notched impact strength 23°C	kJ/m ²	STN EN ISO 179	3
Charpy notched impact strength -20°C	kJ/m ²	STN EN ISO 179	3
Thermal			
Heat deflection temperature	°C	STN EN ISO 75-2 (A)	80
Vicat softening point B	°C	STN EN ISO 306	220
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	550
Volume resistivity	Ohm.m	STN 34 6460	1x10 ¹⁵
Surface resistivity	Ohm	STN 34 6460	1x10 ¹³
Electric strength	kV/mm	STN EN 60243-2	40

Features

PA66 with the content of 30 % mineral filler. Used for grips of electric hand tools, hobby tools, gear wheels, covers of electric tools, flat products, automobile wheel covers, bodies of air filters. Lower abrasion of the manufacturing tools comparing to GF reinforced types. Very good dimensional stability. 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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