

Polymer	Characteristics	Application	Quality	Product Number
polybutylene terephthalate	PBT reinforced with glass fibre	injection moulding	prime	652000

Properties (in natural colour at 23°C)	Unit	Test Method	Value
General			
Symbols and abbreviated terms		STN EN ISO 1043-1	PBT
Density	g/cm ³	STN EN ISO 1183-1	1,71
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	200-220
Melt temperature range	°C		250-280
Mould temperature range	°C		50-90
Injection pressure	MPa		60-100
Drying: temperature/time	°C/H		120/4
Water content	%	STN EN ISO 3344	0,1
Melt flow rate 250°C/2,16 kg	g/10 min	STN EN ISO 1133	5
Manufacturing shrinkage length / width	%	STN EN ISO 294-4	0,55/0,61
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	160
Elongation	%	STN EN ISO 527-2	2
Tensile modulus	MPa	STN EN ISO 527-2	16800
Flexural modulus	MPa	STN EN ISO 178	13400
Flexural strength	MPa	STN EN ISO 178	220
Charpy impact strength 23°C	kJ/m ²	STN EN ISO 179	70
Charpy impact strength -20°C	kJ/m ²	STN EN ISO 179	65
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)	205
Vicat softening point B	°C	STN EN ISO 306	215
Flammability			
Flammability	°flam.	UL - 94	HB
Glow wire test	°C	STN EN 60695-2-12	750 (3mm)

Electrical			
Comparative tracking index CTI, A	V	STN EN 60112	500
Volume resistivity	Ohm.m	STN 34 6460	1x10 ¹⁵
Surface resistivity	Ohm	STN 34 6460	1x10 ¹⁵
Electric strength	kV/mm	STN EN 60243-2	33

Features

PBT for injection moulding, reinforced with 45% glass fibre. Characterised by very good properties also at low temperature. Melt is characterised by very good rheology, which enables manufacturing of multiple products with complicated flow. Application in the automotive, electrical and engineering industry - connectors of cable harnesses, car-door locks, connection links, grips etc. 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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