

Polymer	Characteristics	Application	Quality	Product Number
polybutylene terephthalate	PBT basic type	injection moulding	prime	632000

Properties (in natural colour at 23°C)	Unit	Test Method	Value
<b>General</b>			
Symbols and abbreviated terms		STN EN ISO 1043-1	PBT
Density	g/cm <sup>3</sup>	STN EN ISO 1183-1	1,31
Type of the filler: GF, GB, MF, G			
Stabilisation: TS, LS, K			
Modification: FR, HI, MI, ME			
Colour: NA, F, BK			NA/F
<b>Processing</b>			
Processing method: IM, E	°C		IM
Melting point DSC	°C	STN EN ISO 11357-1	200-220
Melt temperature range	°C		250-270
Mould temperature range	°C		50-80
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/2,1 kg	g/10 min	STN EN ISO 1133	40
Manufacturing shrinkage length / width	%	STN EN ISO 294-4	1,8/1,93
<b>Mechanical</b>			
Tensile strength	MPa	STN EN ISO 527-2	55
Elongation	%	STN EN ISO 527-2	8
Tensile modulus	MPa	STN EN ISO 527-2	2500
Flexural modulus	MPa	STN EN ISO 178	2500
Flexural strength	MPa	STN EN ISO 178	80
Charpy impact strength 23°C	kJ/m <sup>2</sup>	STN EN ISO 179	NB
Charpy impact strength -20°C	kJ/m <sup>2</sup>	STN EN ISO 179	150
Charpy notched impact strength 23°C	kJ/m <sup>2</sup>	STN EN ISO 179	3
Charpy notched impact strength -20°C	kJ/m <sup>2</sup>	STN EN ISO 179	2
<b>Thermal</b>			
Heat deflection temperature	°C	STN EN ISO 75-2 (A)	55
Vicat softening point B	°C	STN EN ISO 306	200
<b>Flammability</b>			
Flammability	°flam.	UL - 94	HB
Glow wire test	°C	STN EN 60695-2-12	850 (3mm)

Electrical			
Comparative tracking index CTI, A	V	STN EN 60112	600
Volume resistivity	Ohm.m	STN 34 6460	1x10 <sup>15</sup>
Surface resistivity	Ohm	STN 34 6460	1x10 <sup>15</sup>
Electric strength	kV/mm	STN EN 60243-2	23

### Features

PBT basic type for injection moulding. Melt is characterised by outstanding fluidity, which enables injection moulding of complicated and divided products also on multiple moulds. Anisotropy of shrinkage enables injection moulding of round, cylindrical or other hole products. 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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