

Polymer	Characteristics	Application	Quality	Product Number
polybutylene terephthalate	PBT basic type	injection moulding	industrial quality	703000

Properties (in natural colour at 23°C)	Unit	Test Method	Value
General			
Symbols and abbreviated terms		STN EN ISO 1043	PBT
Density	g/cm ³	STN 64 0111	1,31
Fillings: GF, GB, MF, G			
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 3146	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 960	0,15
Melt flow rate min. 250°C/2.16 kg	g/10 min	STN EN ISO 1133	90-120
Viscosity number	ml/g	ISO 1628	
Manufacturing shrinkage length / width	%	STN 64 0808	
Mechanical			
Tensile strength	MPa	STN EN ISO 527-2	50
Elongation	%	STN EN ISO 527-2	1-10
Tensile modulus	MPa	STN EN ISO 527-2	2000
Flexural modulus	MPa	STN EN ISO 178	2000
Flexural strength	MPa	STN EN ISO 178	85
Charpy impact strength 23°C	kJ/m ²	STN EN ISO 179	25
Charpy impact strength -20°C	kJ/m ²	STN EN ISO 179	25
Charpy notched impact strength 23°C	kJ/m ²	STN EN ISO 179	2
Charpy notched impact strength -20°C	kJ/m ²	STN EN ISO 179	2
Thermal			
Heat deflection temperature	°C	STN EN ISO 75/A	
Vicat softening point B	°C	STN EN ISO 306	
Flammability			
Flammability	°flam.	UL - 94	

Glow wire test	°C	STN IEC 60695-2-10	
Electrical			
Comparative tracking index CTI, A	V	STN 34 6468	
Volume resistivity	Ohm.m	STN IEC 60093	
Surface resistivity	Ohm	STN IEC 60093	
Electric strength	kV/mm	STN IEC 60243	

Features

Regranulate 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, cylindric or other hole products. Delivered in natural mode and in the full RAL colour scale.

Packaging, transportation, storage

The product is packed in hermetically closed thick-walled 25 kg PE bags, on a 1.000 kg palette coated in a stretch foil, in big bags with a thick PE foil fixed on a 1.000 kg palette, in paper octabins with a thick PE foil fixed 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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