PRODUCT INFORMATION

TAROLOX 10 K6

PBT medium viscosity 30% glass beads reinforced , good flow, good stiffness and deflection temperature, with isotropic properties and low tendency to warpage.

ISO short	ISO 1043: PBT-GB30
Form	Pellets

Key Features

- Glass beads reinforced
- Good flowability
- Good dimensional stability

Availability

- W: lubricated
- LP: laser printable
- L: UV stabilized
- H: heat stabilized
- All colours

Process

- INJECTION MOULDING

Application

- Household
- Electronic
- Electrical
- Consumer

Property	Method	Unit	Value	Condition	State
ELECTRICAL					
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	400		
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm^3	1,55		
Filler content	ISO 3451	%	30	750°C - 1 h	
Granule Humidity	Internal method	%	<0,05		
Water Absorption (24h / +23°C)	ISO 62	%	0,05		
Water Absorption at Saturation	ISO 62	%	0,24		
Mould Shrinkage (Parallel)	Internal method	%	0,3-0,6		
Mould Shrinkage (Normal)	Internal method	%	0,4-0,7		
Melting temperature (DSC)	ISO 11357	°C	225		

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Melt Flow Rate (MFR)	ISO 1133	g/10 min	12,5	250°C - 2,16 kg
MECHANICAL				
Tensile Modulus	ISO 527-1,2	MPa	6500	Speed 1 mm/min
Elongation at Break	ISO 527-1,2	%	2,5	Speed 50 mm/min
Tensile Break Strength	ISO 527-1,2	MPa	110	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	6000	Speed 1 mm/min
Flexural Break Strength	ISO 178	MPa	130	Speed 1 mm/min
IZOD Notched Impact	ASTM D256	J/m	50	+23°C
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m^2	5	
THERMAL				
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	205	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	145	120°C / h
Deflection Temperature 0,45 MPa (HDT B)	ISO 75B	°C	190	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	205	
FLAMMABILITY				
Flame Behaviour (1,6 mm)	UL94	Class	HB	
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	650	
Oxigen index	ASTM D2863	%	20	

INJECTION MOULDING	**Value**
Drying Temperature (Desiccant Dryer)	80 - 120°C
Drying Time (Desiccant Dryer)	2 - 4 h
Suggested Max Moisture	< 0,04
Suggested Max Regrind	< 20%
Melt Temperature	235 - 260°C
Feed Temperature	60°C
Rear Temperature	235°C
Middle Temperature	245°C
Front Temperature	255°C

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Nozzle Temperature	260°C
Mould Temperature	60 - 100°C
Injection Rate	Medium to Fast
Injection Pressure	40 - 100 MPa
Packing Pressure	30 - 80 MPa
Back Pressure	0,5 - 1 MPa
Screw Revolving Speed	70 rpm @ Diameter 60 mm
Screw Revolving Speed	95 rpm @ Diameter 45 mm
Screw Revolving Speed	140 rpm @ Diameter 30 mm
Screw Revolving Speed	220 rpm @ Diameter 20 mm
Screw Revolving Speed	300 rpm @ Diameter 15 mm
Cushion	2 - 6 mm
Screw L/D Ratio	18 - 22
Screw Compression Ratio	2:1 - 2,5:1
Vent Depth	0,02 mm

Notes During processing, a dehumidifying hopper dryer is recommended at a temperature of 60 to 80°C. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine or extruder size, part geometry and design.