



PRODUCT INFORMATION

TAROLOX 10 Z3

PBT medium viscosity elastomer modified, high impact and good thermal properties.

ISO short Form ISO 1043: PBT-I Pellets

Key Features

- Good impact - stiffness balance
- Designed for injection moulding applications

Availability

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

Process

- INJECTION MOULDING

Application

- Furniture
- Electrical
- Automotive

Property	Method	Unit	Value	Condition	State
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ELECTRICAL

Tracking Resistance (CTI - Method A)	IEC 60112	Volt	>600		
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PHYSICAL

Density (+23°C)	ISO 1183	g/cm ³	1,24 - 1,26		
Granule Humidity	Internal method	%	<0,05		
Water Absorption (24h / +23°C)	ISO 62	%	0,05		
Water Absorption at Saturation	ISO 62	%	0,3		
Mould Shrinkage (Parallel)	Internal method	%	0,9 - 1,1		
Mould Shrinkage (Normal)	Internal method	%	1,0 - 1,2		
Melting temperature (DSC)	ISO 11357	°C	220 - 225		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	10	250°C - 2,16 kg	

MECHANICAL

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Tensile Modulus	ISO 527-1,2	MPa	1900	Speed 1 mm/min
Tensile Yield Strength	ISO 527-1,2	MPa	40	Speed 50 mm/min
Elongation at Break	ISO 527-1,2	%	>100	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	1800	Speed 1 mm/min
Flexural Max Strength	ISO 178	MPa	60	Speed 1 mm/min
IZOD Notched Impact	ASTM D256	J/m	600	+23°C

THERMAL

Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	158	50°C / h
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	135	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	55	120°C / h
Continuous service temperature (20.000 h)	UL746 B	°C	80	
Continuous service temperature (short term)	UL746 B	°C	120	

FLAMMABILITY

Flame Behaviour (1,6 mm)	UL94	Class	HB	
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	650	

INJECTION MOULDING

	Value
Drying Temperature (Circulating Air Oven)	80 - 120°C
Drying Temperature (Desiccant Dryer)	80 - 120°C
Drying Time (Circulating Air Oven)	3 - 6 h
Drying Time (Desiccant Dryer)	2 - 4 h
Suggested Max Moisture	< 0,04
Suggested Max Re grind	< 20%
Melt Temperature	250 - 270°C
Feed Temperature	60°C
Rear Temperature	235°C
Middle Temperature	245°C
Front Temperature	255°C
Nozzle Temperature	260°C
Mould Temperature	60 - 100°C



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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.