



PRODUCT INFORMATION

TAROLOX 10

PBT medium viscosity, very good resistance to chemical agents, good flow, good mechanical and thermal properties.

ISO short Form ISO 1043: PBT Pellets

Availability

- H: heat stabilized
- FA: food approval
- all colors

Compliance

- FDA 21 CFR 177.1500
- Commission Regulation No. 10/2011/EU (Food Contact)

Process

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Property	Method	Unit	Value	Condition	State
ELECTRICAL					
Volume Resistivity	IEC 60093	Ohm cm	>10exp(15)		
Electric Strength	IEC 60243-1	kV/mm	18	2 mm	
Dissipation Factor Frequency	IEC 60250	-	0,020		
Dielectric Constant	IEC 60250	-	3,20		
Tracking Resistance (CTI - Method A)	IEC 60112	Volt	>600		
Tracking Resistance (CTI - Method B)	IEC 60112	Volt	350M		
PHYSICAL					
Density (+23°C)	ISO 1183	g/cm ³	1,30-1,32		
Granule Humidity	Internal method	%	<0,05		
Water Absorption (24h / +23°C)	ISO 62	%	0,08		
Water Absorption at Saturation	ISO 62	%	0,5		
Mould Shrinkage (Parallel)	Internal method	%	1,6-1,8		
Mould Shrinkage (Normal)	Internal method	%	1,6-1,8		
Melting temperature (DSC)	ISO 11357	°C	220-225		
Melt Flow Rate (MFR)	ISO 1133	g/10 min	20	250°C - 1,2 kg	

The listed data are in the normal range of product properties, they should not be used to establish specification nor as the basis of design. Values are valid for natural coloured version only.

TARO PLAST S.p.A. reserved information. The data here listed has been determined using injection moulded specimens according to the TARO_019 method.

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MECHANICAL

Tensile Modulus	ISO 527-1,2	MPa	2500	Speed 1 mm/min
Tensile Yield Strength	ISO 527-1,2	MPa	55	Speed 50 mm/min
Elongation at Break	ISO 527-1,2	%	>100	Speed 50 mm/min
Tensile Break Strength	ISO 527-1,2	MPa	50	Speed 50 mm/min
Flexural Modulus	ISO 178	MPa	2300	Speed 1 mm/min
Flexural Max Strength	ISO 178	MPa	80	Speed 1 mm/min
IZOD Notched Impact	ASTM D256	J/m	50	+23°C
IZOD Notched Impact	ASTM D256	J/m	30	-20°C
CHARPY Notched Impact (+23°C)	ISO 179/1eA	kJ/m²	4,5	

THERMAL

Softening Temperature - 1 kg (VST/A/50)	ISO 306	°C	200	50°C / h
Softening Temperature - 5 kg (VST/B/50)	ISO 306	°C	180	50°C / h
Deflection Temperature 1,80 MPa (HDT A)	ISO 75A	°C	60	120°C / h
Deflection Temperature 0,45 MPa (HDT B)	ISO 75B	°C	160	120°C / h
Ball Pressure Test	IEC 60695-10-2	°C	165	
Continuous service temperature (20.000 h)	UL746 B	°C	90 (120 H)	
Continuous service temperature (short term)	UL746 B	°C	130 (160 H)	
Coefficient of linear thermal expansion (parallel)	ISO 11359-1,-2	K⁻¹	10x10exp(-5)	-30°C / +30°C

FLAMMABILITY

Flame Behaviour (1,6 mm)	UL94	Class	HB	
Glow Wire Flammability Index-GWFI (2 mm)	IEC 60695-2-12	°C	750	
Oxygen index	ASTM D2863	%	22	

	Value
Pre heating Temperature	120 - 130°C / 3 h
Drying Temperature	100°C / 1 ÷ 2 h
Melt Temperature	230 - 250°C

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Mould	60 - 80°C
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Injection Rate	HIGH
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Notes

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