

TAROLOX 10

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT medium viscosity, very good resistance to chemical agents, good flow, good mechanical and thermal properties.
Available: all colours, heat stabilised (H), release agent (W), fast cycles (S).

General Information			
Additive	Heat Stabilizer		
	Mold Release		
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Flow		
	Good Mold Release		
	Heat Stabilized		
	Medium Viscosity		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30 to 1.32	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/1.2 kg)	20	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	1.6 to 1.8	%	
Across Flow	1.6 to 1.8	%	
Water Absorption			
23°C, 24 hr	0.080	%	ASTM D570, ISO 62
Saturation	0.50	%	ASTM D570
Saturation, 23°C	0.50	%	ISO 62
Granule Humidity	< 0.050	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	55.0	MPa	
Break	50.0	MPa	
Tensile Elongation (Break)	> 100	%	ASTM D638, ISO 527-2

Flexural Modulus	2300	MPa	ASTM D790, ISO 178
Flexural Stress			
-- ¹	80.0	MPa	ISO 178
-- ²	70.0	MPa	ISO 178
Yield	80.0	MPa	ASTM D790
Break	70.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	6.0	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact			ISO 180, ASTM D256
-20°C, 3.20 mm	30	J/m	
23°C, 3.20 mm	50	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	160	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ⁴	90.0	°C	
-- ⁵	120	°C	
-- ⁶	130	°C	
-- ⁷	160	°C	
Vicat Softening Temperature			
--	200	°C	ASTM D1525, ISO 306/A50 9 ⁸
--	180	°C	ASTM D1525, ISO 306/B50 10 ⁹
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	220 to 225	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	1.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	18	kV/mm	ASTM D149
Comparative Tracking Index			IEC 60112
Solution A	> 600	V	
Solution B	350	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	22	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Pre-heater	120 to 130	°C	
Drying Time			

--	1.0 to 2.0	hr
Pre-heater	3.0	hr
Processing (Melt) Temp	230 to 250	°C
Mold Temperature	60.0 to 80.0	°C
Injection Rate	Fast	

NOTE

1.	Yield
2.	Break
3.	6x4x50 mm
4.	20000 hrs
5.	Heat Stabilized, 20000 hrs
6.	Short Term
7.	Heat Stabilized, Short Term
8.	Rate A (50°C/h), Loading 1 (10 N)
9.	Rate A (50°C/h), Loading 2 (50 N)

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