

TAROLOX 10 X0

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT self extinguishing UL94 V0, good flow, good mechanical and thermal properties.
UL94 V0 approved all colors at 0,97 mm. UL746B approved.
Available: all colors, heat stabilized (H), release agent (W), without PBDE/PBDF.

General Information			
UL YellowCard	E143048-223248		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Flow		
	Good Mold Release		
	Heat Stabilized		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41 to 1.43	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	1.5 to 2.0	%	
Across Flow	1.5 to 2.0	%	
Water Absorption			
23°C, 24 hr	0.060	%	ASTM D570, ISO 62
Saturation	0.35	%	ASTM D570
Saturation, 23°C	0.35	%	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	2900	MPa	ASTM D638, ISO 527-2
Tensile Strength			ASTM D638, ISO 527-2
Yield	60.0	MPa	
Break	55.0	MPa	
Tensile Elongation (Break)	> 50	%	ASTM D638, ISO 527-2
Flexural Modulus	2700	MPa	ASTM D790, ISO 178
Flexural Stress			

-- ¹	100	MPa	ISO 178
-- ²	80.0	MPa	ISO 178
Yield	100	MPa	ASTM D790
Break	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	3.5	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ⁴			ISO 179, ASTM D256
-20°C	40	kJ/m ²	
23°C	45	kJ/m ²	
Notched Izod Impact			
-20°C, 3.20 mm	40	J/m	ISO 180, ASTM D256
23°C, 3.20 mm	50	J/m	ASTM D256, ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	75.0	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
--	75.0	°C	UL 746B
-- ⁵	90.0	°C	IEC 60216
-- ⁶	120	°C	IEC 60216
-- ⁷	130	°C	IEC 60216
-- ⁸	160	°C	IEC 60216
Vicat Softening Temperature			
--	205	°C	ASTM D1525, ISO 306/A50 10 ⁹
--	190	°C	ASTM D1525, ISO 306/B50 11 ¹⁰
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	220 to 225	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	9.0E-5	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)	22	kV/mm	ASTM D149
Comparative Tracking Index			IEC 60112
Solution A	275	V	
Solution B	175	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
0.970 mm	V-0		
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	28	%	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.	6x4x50 mm	
5.	20000 hrs	
6.	Heat Stabilized, 20000 hrs	
7.	Short Term	
8.	Heat Stabilized, Short Term	
9.	Rate A (50°C/h), Loading 1 (10 N)	
10.	Rate A (50°C/h), Loading 2 (50 N)	

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