

TAROLOX 10 G4 X0

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fibre reinforced 20%, self extinguishing UL94 V0 also at low thickness, good flow, good surface finish, good mechanical properties, high dimensional stability.
UL94 V0 approved all colours at 0,97 mm. UL746B approved. IMQ T180 approved for lampholders.
Available: all colors, release agent (W), without PBDE/PBDF.

General Information			
UL YellowCard	E143048-223248		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Features	Good Dimensional Stability		
	Good Flow		
	Good Mold Release		
	Good Surface Finish		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57 to 1.59	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.60	%	
Across Flow	0.60 to 0.90	%	
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570, ISO 62
Saturation	0.25	%	ASTM D570
Saturation, 23°C	0.25	%	ISO 62
Granule Humidity	< 0.050	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	110	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	7500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	165	MPa	ISO 178

Break	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	5.5	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	65	J/m	ISO 1817, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	215	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
--	75.0	°C	UL 746B
-- ²	90.0	°C	IEC 60216
-- ³	130	°C	IEC 60216
-- ⁴	130	°C	IEC 60216
-- ⁵	160	°C	IEC 60216
Vicat Softening Temperature			
--	215	°C	ASTM D1525, ISO 306/A50 8 ⁶
--	210	°C	ASTM D1525, ISO 306/B50 9 ⁷
Ball Pressure Test (205°C)	Pass		VDE 0470
Melting Temperature	220 to 225	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	3.0E-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)	24	kV/mm	ASTM D149
Comparative Tracking Index			IEC 60112
Solution A	250	V	
Solution B	175	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
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	31	%	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 260	°C	

Mold Temperature	80.0 to 110	°C
Injection Rate	Moderate-Fast	
NOTE		
1.	6x4x50 mm	
2.	20000 hrs	
3.	Short Term	
4.	Heat Stabilized, 20000 hrs	
5.	Heat Stabilized, Short Term	
6.	Rate A (50°C/h), Loading 1 (10 N)	
7.	Rate A (50°C/h), Loading 2 (50 N)	

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