TAROLOX 10 H G6 X0

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fiber reinforced 30% heat stabilized, self extinguishing UL94 V0 also at low thickness, good flow, good surface finish, good mechanical properties, very high dimensional stability.
UL94 V0 approved all colors at 0,97 mm - NC,BK at 0,75 mm. UL 746B approved. IMQ T190 approved.
Available: all colors, release agent (W), without PBDE/PBDF.

General Information			
UL YellowCard	E143048-223247		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer Mold Release		
Features	Good Dimensional Stability Good Flow Good Mold Release Good Surface Finish Heat Stabilized Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.64 to 1.66	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.40	%	
Across Flow	0.40 to 0.60	%	
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570, ISO 62
Saturation	0.22	%	ASTM D570
Saturation, 23°C	0.22	%	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	10000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	125	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2

Flexural Modulus	8500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	200	MPa	ISO 178
Break	200	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [1] (23°C)	7.0	kJ/m^2	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	80	J/m	ISO 180, 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	210	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
--	130	°C	UL 746B
-- [2]	140	°C	IEC 60216
-- [3]	165	°C	IEC 60216
Vicat Softening Temperature	215	°C	ISO 306/B50, ASTM D1525 [4]
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	220 to 225	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	2.7E-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)	26	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	200	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.750 mm, NC, BK	V-0		
0.970 mm, ALL	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 270	°C	
Mold Temperature	80.0 to 110	°C	
Injection Rate	Moderate-Fast		

NOTE	
1.	6x4x50 mm
2.	20000 hrs
3.	Short Term
4.	Rate A (50°C/h), Loading 2 (50 N)

Recommended distributors for this material

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