

TAROLOX 10 G6 DX03

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fiber reinforced 30%, self extinguishing UL94 V0 PDBE/PBDF free, good flow, good surface finish, good mechanical properties, high dimensional stability, good tracking resistance. Special grade for lampholders.
Available: all colours, heat stabilised (H), release agent (W).

General Information			
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		
	Tracking Resistant		
Uses	Lighting Fixtures		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59 to 1.61	g/cm ³	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	0.25	%	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)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10200	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	130	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.3	%	ASTM D638, ISO 527-2

Flexural Stress			
--	170	MPa	ISO 178
Break	170	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			IEC 60216
-- ²	90.0	°C	
-- ³	130	°C	
Vicat Softening Temperature			
--	218	°C	ASTM D1525, ISO 306/A50 ⁴
--	215	°C	ASTM D1525, ISO 306/B50 ⁵
Ball Pressure Test (215°C)	Pass		VDE 0470
Melting Temperature	220 to 225	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	2.8E-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)	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-1		
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.	Heat Stabilized, 20000 hrs
4.	Rate A (50°C/h), Loading 1 (10 N)
5.	Rate A (50°C/h), Loading 2 (50 N)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

