

TAROLOX 10 G3

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fiber reinforced 15%, good flow, good surface finish, good mechanical and thermal properties, good dimensional stability.
Available: all colors, heat stabilized (H), release agent (W).

General Information			
UL YellowCard	E143048-102263588		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Dimensional Stability		
	Good Flow		
	Good Mold Release		
	Good Surface Finish		
	Heat Stabilized		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39 to 1.41	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	25	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.50 to 0.80	%	
Across Flow	0.80 to 1.0	%	
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570, ISO 62
Saturation	0.30	%	ASTM D570
Saturation, 23°C	0.30	%	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	5800	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	95.0	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	4.0	%	ASTM D638, ISO 527-2
Flexural Modulus	5500	MPa	ASTM D790, ISO 178

Flexural Stress			
--	145	MPa	ISO 178
Break	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Notched Izod Impact (23°C, 3.20 mm)	60	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	210	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
-- ¹	90.0	°C	IEC 60216
-- ²	130	°C	IEC 60167
-- ³	130	°C	IEC 60216
-- ⁴	180	°C	IEC 60216
Vicat Softening Temperature			
--	210	°C	ASTM D1525, ISO 306/A50 7 ⁵
--	205	°C	ASTM D1525, ISO 306/B50 8 ⁶
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	220 to 225	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	3.5E-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)	21	kV/mm	ASTM D149
Comparative Tracking Index			IEC 60112
Solution A	500	V	
Solution B	175	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 mm	HB		
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Ignition Temperature (2.00 mm)	650	°C	IEC 60695-2-13
Oxygen Index	20	%	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	240 to 260	°C
Mold Temperature	80.0 to 110	°C
Injection Rate	Moderate-Fast	
NOTE		
1.	20000	
2.	Short Term	
3.	Heat Stabilized, 20000 hrs	
4.	Heat Stabilized, Short Term	
5.	Rate A (50°C/h), Loading 1 (10 N)	
6.	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

