

TAROLOX 10 G10

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fibre reinforced 50%, good flow, high stiffness, good mechanical and thermal properties, very high dimensional stability.
Available: all colors, heat stabilized (H), release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Dimensional Stability		
	Good Flow		
	Good Mold Release		
	Heat Stabilized		
	High Stiffness		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69 to 1.71	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.30	%	
Across Flow	0.50 to 0.70	%	
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570, ISO 62
Saturation	0.20	%	ASTM D570
Saturation, 23°C	0.20	%	ISO 62
Granule Humidity	< 0.050	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	165	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	1.5	%	ASTM D638, ISO 527-2
Flexural Modulus	12500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	240	MPa	ISO 178
Break	240	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	100	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	212	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ¹	100	°C	
-- ²	140	°C	
-- ³	180	°C	
Vicat Softening Temperature	216	°C	ISO 306/B50, ASTM D1525 ⁴
Ball Pressure Test (215°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)	21	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
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	250 to 270	°C	
Mold Temperature	80.0 to 110	°C	
Injection Rate	Fast		
NOTE			
1.	20000 hrs		
2.	Heat Stabilized, 20000 hrs		
3.	Heat Stabilized, Short Term		
4.	Rate A (50°C/h), Loading 2 (50 N)		

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