

TAROLOX 10 Z1 G6

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fibre reinforced 30%, improved impact resistance, good flow, good surface finish, good mechanical and thermal properties, good dimensional stability.
Available: differents colours, heat stabilised (H), heat and hydolysis improved (H2).

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Heat Stabilizer		
Features	Good Dimensional Stability		
	Good Flow		
	Good Impact Resistance		
	Good Strength		
	Good Surface Finish		
	Heat Stabilized		
	High Heat Resistance		
	Hydrolysis Resistant		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46 to 1.48	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	15	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.40	%	
Across Flow	0.40 to 0.80	%	
Water Absorption			
23°C, 24 hr	0.040	%	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	7500	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.8	%	ASTM D638, ISO 527-2
Flexural Modulus	7000	MPa	ASTM D790, ISO 178
Flexural Stress			
--	160	MPa	ISO 178

Break	160	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	14	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	120	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ²	100	°C	
-- ³	130	°C	
Vicat Softening Temperature	195	°C	ISO 306/B50, ASTM D1525 ⁴
Ball Pressure Test (165°C)	Pass		VDE 0470
Melting Temperature	225	°C	ASTM D211, ISO 121
Flammability	Nominal Value		Test Method
Flame Rating (0.970 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	110	°C	
Pre-heater	120 to 130	°C	
Drying Time			
--	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.	6x4x50 mm		
2.	20000 hrs		
3.	Heat Stabilized, 20000 hrs		
4.	Rate A (50°C/h), Loading 2 (50 N)		

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