

TAROLOX 10 Z1 G4

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fiber reinforced 20%, improved impact strength, good flow, good surface finish, good mechanical and thermal properties, good dimensional stability.
Available: all colors, heat stabilized (H), release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Dimensional Stability		
	Good Flow		
	Good Impact Resistance		
	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	1.44 to 1.46	g/cm ³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	10.0 to 14.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.60	%	
Across Flow	0.60 to 1.0	%	
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
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	4000	MPa	ASTM D790, ISO 178
Flexural Stress			
-- ¹	150	MPa	ISO 178
Yield	150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

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 (1.8 MPa, Unannealed)	170	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature			
--	190	°C	ASTM D1525, ISO 306/A50 3 ²
--	185	°C	ASTM D1525, ISO 306/B120 4 ³
Melting Temperature	220 to 225	°C	ASTM D211, ISO 121
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	650	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°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.	Yield		
2.	Rate A (50°C/h), Loading 1 (10 N)		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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