

TAROLOX 200 G4

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT glass fibre reinforced 20%, low warpage. Good flow, excellent surface aspect, good combination of mechanical and thermal properties, good dimensional stability.
Development product.
Available: all colours, heat stabilised (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 Mold Release		
	Good Surface Finish		
	Heat Stabilized		
	Low Warpage		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	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	0.30 to 0.50	%	
Across Flow	0.50 to 0.80	%	
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570, ISO 62
Saturation	0.25	%	ASTM D570
Saturation, 23°C	0.25	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	110	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2

Flexural Modulus	6500	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 ¹ (23°C)	7.0	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	75	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	175	°C	ASTM D648, ISO 75-2/A
Vicat Softening Temperature	185	°C	ISO 306/B50, ASTM D1525 ²
Melting Temperature	220	°C	ASTM D211, ISO 121
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (2.00 mm)	23	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	650	°C	IEC 60695-2-13
Oxygen Index	20	%	ASTM D2863
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.	Rate A (50°C/h), Loading 2 (50 N)		

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