

TAROLOX 200 G2

Polybutylene Terephthalate + ASA

Taro Plast S.p.A.

Message:

PBT/ASA alloy 10% glass fibres reinforced. Good flow, excellent surface aspect, good combination of mechanical and thermal properties, good dimensional stability and low warpage behaviour. Preliminary Data Sheet.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Good dimensional stability		
	Low warpage		
	Good liquidity		
	Excellent appearance		
Agency Ratings	EU 2000/53/EC		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0	g/10 min	ISO 1133
Molding Shrinkage			Internal method
Vertical flow direction	0.60 - 0.90	%	Internal method
Flow direction	0.40 - 0.70	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	0.050	%	ISO 62
Saturated, 23°C	0.25	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3900	MPa	ISO 527-2/1
Tensile Stress (Break)	65.0	MPa	ISO 527-2/50
Tensile Strain (Break)	4.8	%	ISO 527-2/50
Flexural Modulus ¹	3700	MPa	ISO 178
Flexural Stress ²	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.2	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	45	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	145	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/B50
Melting Temperature	220	°C	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.60 mm)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index	20	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content ⁴ (750°C)	10	%	ISO 3451
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	240 - 260	°C	
Mold Temperature	80.0 - 110	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Pre-heat Temperature: 120 to 130°CPre-heat Time: 3 hr			
NOTE			
1.	1.0 mm/min		
2.	1.0 mm/min		
3.	120°C/hr		
4.	1 hr		

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