

TAROLOX 10 G5 X0

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT medium viscosity 25% glass fibres reinforced, flame retardant UL94 V0, good flow and surface appearance. Good thermal and mechanical resistance. Very high dimensional stability.

General Information			
UL YellowCard	E143048-223248		
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Additive	Flame retardancy		
Features	Good dimensional stability		
	Good liquidity		
	Heat resistance, high		
	Good appearance		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60 - 1.62	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.50 - 0.80	%	Internal method
Flow direction	0.35 - 0.55	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	0.040	%	ISO 62
Saturated, 23°C	0.24	%	ISO 62
Granule Humidity ¹		%	
Reinforcement Content ² (850°C)	25	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2/1
Tensile Stress (Break)	118	MPa	ISO 527-2/50
Tensile Strain (Break)	2.8	%	ISO 527-2/50
Flexural Modulus ³	8000	MPa	ISO 178
Flexural Stress ⁴	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	72	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed)	208	°C	ISO 75-2/A
Vicat Softening Temperature			

--	215	°C	ISO 306/A50
--	212	°C	ISO 306/B50
Ball Pressure Test (215°C)	Pass		IEC 60695-10-2
Melting Temperature	220 - 225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	24	kV/mm	IEC 60243-1
Dielectric Constant	3.60		IEC 60250
Comparative Tracking Index			IEC 60112
Solution a	200 - 250	V	IEC 60112
Solution B	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 mm	V-0		UL 94
1.60 mm	V-0		UL 94
3.20 mm	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	775	°C	IEC 60695-2-13
Oxygen Index	31	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	1.0 - 2.0	hr	
Processing (Melt) Temp	230 - 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.	TARO 002		
2.	1 hr		
3.	1.0 mm/min		
4.	1.0 mm/min		
5.	120°C/hr		

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