

TAROLOX 10 G5

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

TAROLOX 10 G5 is a Polybutylene Terephthalate (PBT) product filled with 25% glass fiber. It can be processed by injection molding and is available in Europe.

Characteristics include:

Flame Rated

Good Dimensional Stability

High Stiffness

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
	High Stiffness		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.48 to 1.50	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	0.60 to 1.0	%	
Flow	0.40 to 0.60	%	
Water Absorption			ISO 62
23°C, 24 hr	0.045	%	
Saturation, 23°C	0.24	%	
Granule Humidity ¹	< 0.050	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	115	MPa	ISO 527-2/50
Tensile Strain (Break)	2.6	%	ISO 527-2/50
Flexural Modulus ²	7500	MPa	ISO 178
Flexural Stress ³	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
-20°C	65	J/m	
23°C	76	J/m	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed	218	°C	ISO 75-2/B
1.8 MPa, Unannealed	208	°C	ISO 75-2/A
Continuous Use Temperature			IEC 60216
-- ⁵	90.0	°C	
-- ⁶	130	°C	
Vicat Softening Temperature			
--	216	°C	ISO 306/A50
--	212	°C	ISO 306/B50
Ball Pressure Test (215°C)	Pass		IEC 60695-10-2
Melting Temperature	220 to 225	°C	ISO 11357-3
CLTE - Flow (-30 to 30°C)	3.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength (2.00 mm)	22	kV/mm	IEC 60243-1
Dielectric Constant	3.60		IEC 60250
Comparative Tracking Index			IEC 60112
Solution A	450	V	
Solution B	200	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 mm	HB		
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index	20	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Pre-heater	120 to 130	°C	
Drying Time			
--	1.0 to 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.	TARO 002		
2.	1.0 mm/min		
3.	1.0 mm/min		
4.	120°C/hr		

5.	20000 hrs
6.	Short Term

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

