

TAROLOX 111 G8

Polyethylene Terephthalate

Taro Plast S.p.A.

Message:

PET medium viscosity 40% glass fibres reinforced, very good chemical resistance, good mechanical, thermal and electrical properties, low moisture absorption, good dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Low Moisture Absorption		
	Medium Viscosity		
Agency Ratings	EU 2000/53/EC		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.64 to 1.66	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.40 to 0.60	%	
Flow	0.15 to 0.30	%	
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Granule Humidity ¹	< 0.030	%	
Reinforcement Content ² (750°C)	40	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ISO 527-2/1
Tensile Stress (Break)	185	MPa	ISO 527-2/50
Tensile Strain (Break)	2.1	%	ISO 527-2/50
Flexural Modulus ³	12500	MPa	ISO 178
Flexural Stress ⁴	265	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	95	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed)	230	°C	ISO 75-2/A
Vicat Softening Temperature	242	°C	ISO 306/B50
Ball Pressure Test (245°C)	Pass		IEC 60695-10-2
Melting Temperature	256	°C	ISO 11357-3

CLTE - Flow (-30 to 30°C)	2.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Electric Strength (1.00 mm)	33	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁶	< 100	mm/min	ISO 3795
Flame Rating			UL 94
0.750 mm	HB		
1.50 mm	HB		
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	270 to 300	°C	
Mold Temperature	90.0 to 130	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	TARO 002		
2.	1 hr		
3.	1.0 mm/min		
4.	1.0 mm/min		
5.	120°C/hr		
6.	US FMVSS302		

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