

TAROLOX 111 G6 DX03

Polyethylene Terephthalate

Taro Plast S.p.A.

Message:

PET glass fiber reinforced 30%, self extinguishing V0 without PBDE/PBDF, high temperature resistance, good flow, very good mechanical, thermal and electrical properties, low moisture absorption, good dimensional stability. Special grade for lampholders. Product must be dried before moulding. Available: different colors.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability		
	Good Electrical Properties		
	Good Flow		
	High Heat Resistance		
	Low Moisture Absorption		
	Self Extinguishing		
Uses	Lighting Fixtures		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64 to 1.66	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.30	%	
Across Flow	0.60 to 0.80	%	
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570, ISO 62
Granule Humidity	< 0.030	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10800	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus	9800	MPa	ASTM D790, ISO 178
Flexural Stress			
--	210	MPa	ISO 178
Break	210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ¹ (23°C)	40	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact (23°C, 3.20 mm)	70	J/m	ISO 180, ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	240	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature ²	140	°C	IEC 60216
Vicat Softening Temperature	237	°C	ISO 306/B50, ASTM D1525 ³
Ball Pressure Test (245°C)	Pass		VDE 0470
Melting Temperature	256	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-1		
3.20 mm	V-0		
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	32	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	260 to 290	°C	
Mold Temperature	100 to 130	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	6x4x50mm		
2.	20000 hrs		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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