

TAROLOX 111 G5

Polyethylene Terephthalate

Taro Plast S.p.A.

Message:

PET glass fibre reinforced 25%, good temperature resistance, very good chemical resistance, very good mechanical, thermal and electrical properties, low moisture absorption, very good dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	High Heat Resistance		
	Low Moisture Absorption		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51 to 1.53	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.25 to 0.40	%	
Across Flow	0.40 to 0.70	%	
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570, ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	125	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.2	%	ASTM D638, ISO 527-2
Flexural Modulus	7800	MPa	ASTM D790, ISO 178
Flexural Stress			
--	185	MPa	ISO 178
Break	185	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	9.0	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ² (23°C)	45	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact			
-20°C, 3.20 mm	55	J/m	ISO 180, ASTM D256
23°C, 3.20 mm	75	J/m	ASTM D256, ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	225	°C	ASTM D648, ISO 75-2/A

Vicat Softening Temperature	230	°C	ISO 306/B50, ASTM D1525 3
Ball Pressure Test (245°C)	Pass		VDE 0470
Melting Temperature	256	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	3.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.00 mm)	34	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.970 mm)	HB		UL 94
Glow Wire Ignition Temperature (2.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	24	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Grafted Base Resin	< 0.020	%	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Processing (Melt) Temp	270 to 300	°C	
Mold Temperature	90.0 to 130	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	6x4x50 mm		
2.	6x4x50 mm		
3.	Rate A (50°C/h), Loading 2 (50 N)		

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