

# TAROLOX 111 G9

Polyethylene Terephthalate

Taro Plast S.p.A.

## Message:

PET glass fiber reinforced 45%, very high temperature resistance, very good chemical resistance, very good mechanical, thermal and electrical properties, very low moisture absorption, very good dimensional stability. Product must be dried before moulding.

Available: all colors, heat stabilized (H), release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Additive	Heat Stabilizer		
	Mold Release		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Mold Release		
	Heat Stabilized		
	High Heat Resistance		
	Low Moisture Absorption		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68 to 1.70	g/cm <sup>3</sup>	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.15 to 0.25	%	
Across Flow	0.40 to 0.60	%	
Water Absorption (23°C, 24 hr)	0.040	%	ASTM D570, ISO 62
Granule Humidity	< 0.030	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15500	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	185	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.0	%	ASTM D638, ISO 527-2
Flexural Modulus	13500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	280	MPa	ISO 178
Break	280	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>1</sup> (23°C)	11	kJ/m <sup>2</sup>	ASTM D256, ISO 179
Charpy Unnotched Impact Strength <sup>2</sup> (23°C)	60	kJ/m <sup>2</sup>	ASTM D256, ISO 179
Notched Izod Impact			ISO 180, ASTM D256
-20°C, 3.20 mm	90	J/m	
23°C, 3.20 mm	120	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	248	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	230	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
-- <sup>3</sup>	140	°C	IEC 60216
--	140	°C	UL 746B
Vicat Softening Temperature	245	°C	ISO 306/B50, ASTM D1525 <sup>4</sup>
Melting Temperature	256	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	2.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (1.00 mm)	32	kV/mm	ASTM D149
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 mm	HB		
1.60 mm	HB		
Glow Wire Ignition Temperature (2.00 mm)	750	°C	IEC 60695-2-13
Oxygen Index	22	%	ASTM D2863
Injection	Nominal Value	Unit	Test Method
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.	200000 hrs		
4.	Rate A (50°C/h), Loading 2 (50 N)		

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