

TAROLOX 111 G4 Y0

Polyethylene Terephthalate

Taro Plast S.p.A.

Message:

PET medium viscosity 20% glass fibres reinforced, halogen free flame retardant UL94 V0, heat stabilized, good flow, good mechanical, thermal and electrical properties, low moisture absorption, good dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Flow		
	Halogen Free		
	Heat Stabilized		
	Low Moisture Absorption		
	Medium Viscosity		
Uses	Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	0.50 to 0.80	%	
Flow	0.30 to 0.50	%	
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Granule Humidity ¹	< 0.030	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8700	MPa	ISO 527-2/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/50
Tensile Strain (Break)	2.1	%	ISO 527-2/50
Flexural Modulus ²	8100	MPa	ISO 178
Flexural Stress ³	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	36	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ASTM D256

-20°C	50	J/m	
23°C	65	J/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed)	228	°C	ISO 75-2/A
Continuous Use Temperature	150	°C	IEC 60216
Vicat Softening Temperature	235	°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)	3.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.60 mm	V-0		
3.20 mm	V-0		
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	775	°C	IEC 60695-2-13
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.	TARO 002		
2.	1.0 mm/min		
3.	1.0 mm/min		
4.	120°C/hr		

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