

TAROLOX 111 G3 DX0

Polyethylene Terephthalate

Taro Plast S.p.A.

Message:

TAROLOX 111 G3 DX0 is a Polyethylene Terephthalate (PET) product filled with 15% glass fiber. It can be processed by injection molding and is available in Europe. Typical application: Electrical/Electronic Applications.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Flame Retardant
- Good Dimensional Stability
- Heat Stabilizer

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Heat Stabilizer		
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Electrical Properties		
	Heat Stabilized		
	Low Moisture Absorption		
	Medium Viscosity		
Uses	Electrical Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.52 to 1.54	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	1.0 to 1.2	%	
Flow	0.30 to 0.50	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62
Granule Humidity ¹	< 0.030	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10500	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/50
Tensile Strain (Break)	1.9	%	ISO 527-2/50
Flexural Modulus ²	9000	MPa	ISO 178
Flexural Stress ³	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	50	J/m	
23°C	65	J/m	
Notched Izod Impact (Area) (23°C)	6.00	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed	240	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Continuous Use Temperature			IEC 60216
--	140	°C	
-- ⁵	140	°C	
Vicat Softening Temperature	215	°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)	2.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	34	kV/mm	IEC 60243-1
Dielectric Constant	3.10		IEC 60250
Comparative Tracking Index (Solution A)	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 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
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	90.0 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		
5.	20000 hrs		

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