

TAROLOX 111 G4 DX0

Polyethylene Terephthalate

Taro Plast S.p.A.

Message:

PET glass fiber reinforced 20%, self extinguishing V0 without PBDE/PBDF, good flame proofing also at low thickness, high temperature resistance, good flow, very good mechanical, thermal and electrical properties, low moisture absorption, good dimensional stability. Product must be dried before moulding.
Available: different colors, release agent (W).

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Flow		
	Good Mold Release		
	High Heat Resistance		
	Low Moisture Absorption		
	Self Extinguishing		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58 to 1.60	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.30 to 0.40	%	
Across Flow	0.80 to 1.0	%	
Water Absorption (23°C, 24 hr)	0.060	%	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	8800	MPa	ASTM D638, ISO 527-2
Tensile Strength (Break)	120	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	2.5	%	ASTM D638, ISO 527-2
Flexural Modulus	8000	MPa	ASTM D790, ISO 178
Flexural Stress			
--	190	MPa	ISO 178
Break	190	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹ (23°C)	8.5	kJ/m ²	ASTM D256, ISO 179
Charpy Unnotched Impact Strength ² (23°C)	40	kJ/m ²	ASTM D256, ISO 179
Notched Izod Impact			ISO 180, ASTM D256
-20°C, 3.20 mm	58	J/m	
23°C, 3.20 mm	70	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	244	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature			
-- ³	140	°C	IEC 60216
--	140	°C	UL 746B
Vicat Softening Temperature	235	°C	ISO 306/B50, ASTM D1525 ⁴
Ball Pressure Test (245°C)	Pass		VDE 0470
Melting Temperature	256	°C	ASTM D211, ISO 121
CLTE - Flow (-30 to 30°C)	2.4E-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)	34	kV/mm	ASTM D149
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 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	
Pre-heater	130 to 150	°C	
Processing (Melt) Temp	260 to 290	°C	
Mold Temperature	90.0 to 130	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	6x4x50 mm		
2.	6x4x50 mm		
3.	20000 hrs		
4.	Rate A (50°C/h), Loading 2 (50 N)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

