

TAROLOX 10 G4 DX03

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

TAROLOX 10 G4 DX03 is a polybutene terephthalate (PBT) product, which contains a 20% glass fiber reinforced material. It can be processed by injection molding and is available in Europe.

- Features include:
- flame retardant/rated flame
 - Good dimensional stability
 - beautiful
 - heat stabilizer
 - mold release agent

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	heat stabilizer		
	demoulding		
Features	Good dimensional stability		
	Good liquidity		
	Track Resistance		
	Thermal Stability		
	Good demoulding performance		
	Excellent appearance		
	Self-extinguishing		
Appearance	Available colors		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow	0.40 - 0.60	%	ASTM D955
Transverse flow	0.60 - 0.90	%	ASTM D955
Water Absorption			
23°C, 24 hr	0.050	%	ASTM D570, ISO 62
Saturation	0.25	%	ASTM D570
Saturated, 23°C	0.25	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ASTM D638, ISO 527-2

Tensile Strength (Break)	110	MPa	ASTM D638, ISO 527-2
Tensile Elongation (Break)	3.0	%	ASTM D638, ISO 527-2
Flexural Modulus	7500	MPa	ASTM D790, ISO 178
Flexural Stress			
--	165	MPa	ISO 178
Fracture	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m ²	ISO 179
Notched Izod Impact (23°C, 3.20 mm)	65	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	215	°C	ASTM D648, ISO 75-2/B
1.8 MPa, not annealed	205	°C	ASTM D648, ISO 75-2/A
Continuous Use Temperature	75.0	°C	ASTM D794
Vicat Softening Temperature			
--	215	°C	ASTM D1525, ISO 306/A50 1 ¹
--	210	°C	ASTM D1525, ISO 306/B50 2 ²
Melting Temperature	220 - 225	°C	
CLTE - Flow (-30 to 30°C)	3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (2.00 mm)	24	kV/mm	ASTM D149
Comparative Tracking Index			IEC 60112
Solution a	250	V	IEC 60112
Solution B	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-1		UL 94
3.20 mm	V-0		UL 94
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13
Oxygen Index	31	%	ASTM D2863
Additional Information			
Granule Humidity, TARO 002: 1e15 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Pre-drying equipment	120 - 130	°C	
Drying Time			
--	1.0 - 2.0	hr	
Pre-drying equipment	3.0	hr	
Processing (Melt) Temp	230 - 260	°C	

Mold Temperature	80.0 - 110	°C
Injection Rate	Moderate-Fast	
NOTE		
1.	速率 A (50°C/h), 压 力1 (10N)	
2.	速率 A (50°C/h), 载荷2 (50N)	

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