

TAROLOX GFR

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

PBT medium viscosity heat stabilized, halogen free flame retardant UL94 V0, good flame proofing also at low thickness, good flow, good mechanical and thermal properties. High CTI value.

General Information			
UL YellowCard	E143048-100537060		
Additive	heat stabilizer		
	Flame retardancy		
Features	Good liquidity		
	Thermal Stability		
	Halogen-free		
	Medium viscosity		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	1.5 - 2.0	%	Internal method
Flow direction	1.5 - 2.0	%	Internal method
Water Absorption			ISO 62
23°C, 24 hr	0.060	%	ISO 62
Saturated, 23°C	0.35	%	ISO 62
Granule Humidity ¹		%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2/1
Tensile Stress (Yield)	68.0	MPa	ISO 527-2/50
Flexural Modulus ²	3000	MPa	ISO 178
Flexural Stress ³	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-25°C	40	kJ/m ²	ISO 179/1eU
23°C	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	40	J/m	ASTM D256

23°C	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Vicat Softening Temperature	194	°C	ISO 306/B50
Ball Pressure Test (165°C)	Pass		IEC 60695-10-2
Melting Temperature	220 - 225	°C	ISO 11357-3
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
0.400 mm	V-0		UL 94
0.750 mm	V-0		UL 94
1.50 mm	V-0		UL 94
3.00 mm	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	750	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	1.0 - 2.0	hr	
Processing (Melt) Temp	230 - 250	°C	
Mold Temperature	60.0 - 80.0	°C	
Injection Rate	Fast		
Injection instructions			
Pre-heat Temperature: 120 to 130°CPre-heat Time: 3 hr			
NOTE			
1.	TARO 002		
2.	1.0 mm/min		
3.	1.0 mm/min		
4.	120°C/hr		

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