

TAROLOX 10 Z2

Polybutylene Terephthalate

Taro Plast S.p.A.

Message:

TAROLOX 10 Z2 is a Polybutylene Terephthalate (PBT) product. It can be processed by injection molding and is available in Europe.

Characteristics include:

- Flame Rated
- Impact Modified
- Impact Resistant
- Medium Viscosity

General Information			
Additive	Impact Modifier		
Features	Good Impact Resistance		
	Impact Modified		
	Medium Viscosity		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26 to 1.28	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/1.2 kg)	12	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow	1.6 to 1.8	%	
Flow	1.6 to 1.8	%	
Water Absorption			ISO 62
23°C, 24 hr	0.080	%	
Saturation, 23°C	0.50	%	
Granule Humidity ¹	< 0.050	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	55.0	MPa	
Break	45.0	MPa	
Tensile Strain (Break)	> 100	%	ISO 527-2/50
Flexural Modulus ²	2100	MPa	ISO 178
Flexural Stress ³	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
-30°C	45	J/m	
23°C	85	J/m	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed)	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	185	°C	ISO 306/A50
--	165	°C	ISO 306/B50
Ball Pressure Test (165°C)	Pass		IEC 60695-10-2
Melting Temperature	218	°C	ISO 11357-3
CLTE - Flow (-30 to 30°C)	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	18	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 mm	HB		
1.60 mm	HB		
3.20 mm	HB		
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index	22	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Pre-heater	100 to 110	°C	
Drying Time			
--	1.0 to 2.0	hr	
Pre-heater	3.0	hr	
Processing (Melt) Temp	230 to 250	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Rate	Fast		
NOTE			
1.	TARO 002		
2.	1.0 mm/min		
3.	1.0 mm/min		
4.	120°C/hr		

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