

TAROLOX 2050 W G4

Polybutylene Terephthalate + PET

Taro Plast S.p.A.

Message:

PBT/PET alloy 20% glass fibres reinforced, very good surface appearance, high temperature and chemical resistance. High dimensional stability with low moisture absorption.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Good dimensional stability		
	Low hygroscopicity		
	Good chemical resistance		
	Heat resistance, high		
	Good appearance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.47 - 1.49	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.60 - 1.0	%	Internal method
Flow direction	0.40 - 0.80	%	Internal method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Granule Humidity ¹		%	
Reinforcement Content ² (750°C)	20	%	ISO 3451
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2/1
Tensile Stress (Break)	105	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus ³	6200	MPa	ISO 178
Flexural Stress ⁴	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	56	J/m	ASTM D256
23°C	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, not annealed	210	°C	ISO 75-2/B
1.8 MPa, not annealed	170	°C	ISO 75-2/A

Continuous Use Temperature ⁶	130	°C	IEC 60216
Vicat Softening Temperature	210	°C	ISO 306/B50
Ball Pressure Test (215°C)	Pass		IEC 60695-10-2
Melting Temperature	235	°C	ISO 11357-3
CLTE - Flow (-30 to 30°C)	4.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (3.20 mm)	20	kV/mm	IEC 60243-1
Dielectric Constant	3.40		IEC 60250
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.970 mm	HB		UL 94
1.60 mm	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index	19	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	110 - 130	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	90.0 - 130	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Pre-heat Temperature: 130 to 150°CPre-heat Time: 2 to 3 hr			
NOTE			
1.	TARO 002		
2.	1 hr		
3.	1.0 mm/min		
4.	1.0 mm/min		
5.	120°C/hr		
6.	20,000 hr		

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