TAROLOX 2050 W G6

Polybutylene Terephthalate + PET

Taro Plast S.p.A.

Message:

PBT/PET alloy 30% 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, 30% 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	1.52 - 1.54	g/cm³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.50 - 0.80	%	Internal method
Flow direction	0.30 - 0.50	%	Internal method
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Granule Humidity [1]		%	
Reinforcement Content [2] (750°C)	30	%	ISO 3451
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9500	MPa	ISO 527-2/1
Tensile Stress (Break)	130	MPa	ISO 527-2/50
Tensile Strain (Break)	2.4	%	ISO 527-2/50
Flexural Modulus [3]	8200	MPa	ISO 178
Flexural Stress [4]	180	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	60	J/m	ASTM D256
23°C	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [5] (1.8 MPa, Unannealed)	190	°C	ISO 75-2/A
Continuous Use Temperature [6]	130	°C	IEC 60216
Vicat Softening Temperature	216	°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)	2.6E-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)	22	kV/mm	IEC 60243-1
Dielectric Constant	3.60		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	260 - 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

Recommended distributors for this material

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