

Toraycon® 7151G-X01

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 7151G-X01 is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America. Characteristics include:
Flame Rated
Warp Resistant

General Information			
UL YellowCard	E41797-100073901		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Low Density		
	Low Warpage		
Part Marking Code	>PBT+P-GF30<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.39	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.50	%	
Flow : 3.00 mm ²	0.20	%	
Water Absorption (23°C, 24 hr)	0.090	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10000	MPa	ISO 527-2
Tensile Stress (23°C)	135	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.2	%	ISO 527-2
Flexural Modulus (23°C)	10000	MPa	ISO 178
Flexural Stress (23°C)	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	209	°C	ISO 75-2/B
1.8 MPa, Unannealed	163	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	4.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength	16	kV/mm	IEC 60243-1
Dielectric Constant ³ (23°C, 1 kHz)	3.80		IEC 60250
Dissipation Factor ⁴ (23°C, 1 MHz)	0.010		IEC 60250
Flammability	Nominal Value	Unit	Test Method

Flame Rating	HB	UL 94
NOTE		
1.	80x80x3	
2.	80x80x3mm	
3.	60% RH	
4.	60% RH	

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