

Toraycon® 1151W X01

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 1151W X01 is a Polybutylene Terephthalate (PBT) product filled with 40% glass bead\glass fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Warp Resistant

General Information			
UL YellowCard	E41797-233467		
Filler / Reinforcement	Glass Bead\Glass Fiber,40% Filler by Weight		
Features	Low Warpage		
Part Marking Code	>PBT+P-(GF+GS)40<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.58	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.70	%	
Flow : 3.00 mm ²	0.30	%	
Water Absorption (23°C, 24 hr)	0.080	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	65		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500	MPa	ISO 527-2
Tensile Stress (23°C)	110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	10000	MPa	ISO 178
Flexural Stress (23°C)	183	MPa	ISO 178
Coefficient of Friction ³	0.19		
Coefficient of Friction - vs. Metal ⁴	0.150		Suzuki Method
Bar Flow Length ⁵ (250°C, 1.00 mm)	8.50	cm	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	55	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	3.8E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	4.0E+16	ohms·cm	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Dielectric Constant ⁶			IEC 60250
23°C, 50 Hz	3.50		
23°C, 1 kHz	3.50		
Dissipation Factor ⁷			IEC 60250
23°C, 50 Hz	2.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance ⁸	120	sec	IEC 60950
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

NOTE

1. 80x80x3
2. 80x80x3mm
3. vs. Metal
4. Without Lubrication
5. 93 MPa
6. 60% RH
7. 60% RH
8. Tungsten Electrode

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