

Toraycon® 1101G-X50

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 1101G-X50 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

Good Aesthetics

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Pleasing Surface Appearance		
Part Marking Code	>PBT+P-GF30<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.55	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.80	%	
Flow : 3.00 mm ²	0.20	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	91		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500	MPa	ISO 527-2
Tensile Stress (23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	9700	MPa	ISO 178
Flexural Stress (23°C)	220	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)	8.40	cm	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	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	208	°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	4.6E+16	ohms · cm	IEC 60093
Electric Strength	23	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	0.010		
Arc Resistance ⁸	137	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

