

Toraycon® 1101G-X54

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 1101G-X54 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
Fast Molding Cycle
Impact Resistant

General Information			
UL YellowCard	E41797-101718275		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Fast Molding Cycle		
	High Impact Resistance		
Part Marking Code	>PBT-I-GF30<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.46	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	1.0	%	
Flow : 3.00 mm ²	0.40	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	55		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8500	MPa	ISO 527-2
Tensile Stress (23°C)	120	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2
Flexural Modulus (23°C)	8000	MPa	ISO 178
Flexural Stress (23°C)	190	MPa	ISO 178
Coefficient of Friction ³	0.20		
Coefficient of Friction - vs. Metal ⁴	0.170		Suzuki Method
Bar Flow Length ⁵ (250°C, 1.00 mm)	7.50	cm	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	65	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	207	°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	1.4E+17	ohms·cm	IEC 60093
Electric Strength	28	kV/mm	IEC 60243-1
Dielectric Constant ⁶			IEC 60250
23°C, 50 Hz	3.80		
23°C, 1 kHz	3.70		
Dissipation Factor ⁷			IEC 60250
23°C, 50 Hz	2.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance ⁸	131	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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