

Toraycon® 1154W

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 1154W is a Polybutylene Terephthalate (PBT) product filled with 33% glass bead\glass fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Warp Resistant

General Information			
UL YellowCard	E41797-233470		
Filler / Reinforcement	Glass Bead\Glass Fiber,33% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Low Warpage		
Part Marking Code	>PBT+P-(GF+GS)33-FR(17)<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.65	g/cm³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.60	%	
Flow : 3.00 mm ²	0.40	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9800	MPa	ISO 527-2
Tensile Stress (23°C)	105	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	9200	MPa	ISO 178
Flexural Stress (23°C)	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	218	°C	ISO 75-2/B
1.8 MPa, Unannealed	194	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	3.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.4E+16	ohms·cm	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Dielectric Constant ³			IEC 60250

23°C, 50 Hz	4.00		
23°C, 1 kHz	3.70		
Dissipation Factor ⁴			IEC 60250
23°C, 50 Hz	2.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance ⁵	125	sec	IEC 60950
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ⁶ (250°C, 1.00 mm)	101	mm	Internal Method
NOTE			
1.	80x80x3		
2.	80x80x3mm		
3.	60% RH		
4.	60% RH		
5.	Tungsten Electrode		
6.	93 MPa		

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