

Toraycon® 5174G-X11

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 5174G-X11 is a Polybutylene Terephthalate (PBT) product filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E41797-233511		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Part Marking Code	>PBT-I-GF20-FR(17)<		
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	0.90	%	
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)	6600	MPa	ISO 527-2
Tensile Stress (23°C)	95.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.1	%	ISO 527-2
Flexural Modulus (23°C)	6300	MPa	ISO 178
Flexural Stress (23°C)	150	MPa	ISO 178
Coefficient of Friction ³	0.20		
Coefficient of Friction - vs. Metal ⁴	0.160		Suzuki Method
Bar Flow Length ⁵ (250°C, 1.00 mm)	113	mm	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)	57	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)	5.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value		Test Method
Dielectric Constant ⁶			IEC 60250
23°C, 50 Hz	3.80		

23°C, 1 kHz	3.80	
Dissipation Factor ⁷		IEC 60250
23°C, 50 Hz	2.0E-3	
23°C, 1 MHz	0.020	
Flammability	Nominal Value	Test Method
Flame Rating (1.59 mm)	V-0	UL 94
NOTE		
1.	80x80x3	
2.	80x80x3mm	
3.	vs. Metal	
4.	Without Lubrication	
5.	93 MPa	
6.	60% RH	
7.	60% RH	

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