

Toraycon® 5101G-15

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 5101G-15 is a Polybutylene Terephthalate (PBT) product filled with 15% glass fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
UL YellowCard	E41797-233506		
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	High Impact Resistance		
Part Marking Code	>PBT-I-GF15<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.36	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	1.5	%	
Flow : 3.00 mm ²	0.60	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	64		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5000	MPa	ISO 527-2
Tensile Stress (23°C)	90.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	4700	MPa	ISO 178
Flexural Stress (23°C)	145	MPa	ISO 178
Coefficient of Friction ³	0.19		
Coefficient of Friction - vs. Metal ⁴	0.140		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)	13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60	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	195	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	5.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	IEC 60093

Electric Strength	22	kV/mm	IEC 60243-1
Dielectric Constant ⁶			IEC 60250
23°C, 50 Hz	3.40		
23°C, 1 kHz	3.50		
Dissipation Factor ⁷			IEC 60250
23°C, 50 Hz	1.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance ⁸	110	sec	IEC 60950
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 mm)	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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