

Toraycon® 1201G-15

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 1201G-15 is a Polybutylene Terephthalate (PBT) product filled with 15% glass fiber. It is available in Asia Pacific, Europe, or North America.
Typical application: Automotive. Primary characteristic: flame rated.

General Information			
UL YellowCard	E41797-233489		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Part Marking Code	>PBT-GF15<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.42	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)	90		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5900	MPa	ISO 527-2
Tensile Stress (23°C)	100	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0	%	ISO 527-2
Flexural Modulus (23°C)	5600	MPa	ISO 178
Flexural Stress (23°C)	170	MPa	ISO 178
Coefficient of Friction ³	0.18		
Coefficient of Friction - vs. Metal ⁴	0.150		Suzuki Method
Bar Flow Length ⁵ (250°C, 1.00 mm)	8.00	cm	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35	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	200	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	5.4E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.2E+16	ohms · cm	IEC 60093
Electric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant ⁶			IEC 60250

23°C, 50 Hz	3.30		
23°C, 1 kHz	3.40		
Dissipation Factor ⁷			IEC 60250
23°C, 50 Hz	2.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance ⁸	129	sec	IEC 60950
Comparative Tracking Index (CTI)	PLC 2		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		

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

