

Toraycon® 1164G-30 FE

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 1164G-30 FE is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Part Marking Code	>PBT-GF30-FR(17)<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.69	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	1.2	%	
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)	85		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	11700	MPa	ISO 527-2
Tensile Stress (23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.2	%	ISO 527-2
Flexural Modulus (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	205	MPa	ISO 178
Coefficient of Friction ³	0.20		
Coefficient of Friction - vs. Metal ⁴	0.150		Suzuki Method
Bar Flow Length ⁵ (250°C, 1.00 mm)	150	mm	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	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	207	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	4.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+16	ohms · cm	IEC 60093
Electric Strength	27	kV/mm	IEC 60243-1
Dielectric Constant ⁶			IEC 60250
23°C, 50 Hz	4.00		

23°C, 1 kHz	3.80		
Dissipation Factor ⁷			IEC 60250
23°C, 50 Hz	2.0E-3		
23°C, 1 MHz	0.020		
Comparative Tracking Index (CTI)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 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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