

Toraycon™ 1101G-30S

PBT

TECHNICAL DATA

Product Description

Low oligomer, GF30%

Uses	- Automotive Applications - Automotive Electronics - Insulation
Processing Method	Injection Molding
ISO Designation	>PBT-GF30<
Type	PBT/Reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.54	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	1.00	%	
Flow : 3.00 mm	0.30	%	
Water Absorption ² (24 hr, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10200	MPa	ISO 527-1
Tensile Strength (23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	9000	MPa	ISO 178
Flexural Stress (23°C)	205	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	213	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	4.1	cm ³ /cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+14	ohms·m	IEC 60093
Electric Strength	36	kV/mm	IEC 60243-1
Arc Resistance	120	sec	IEC 60950
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.71 mm)	HB		UL 94

Notes

¹ 80x80x3mm

² in water

Toray Industries, Inc.

