

Toraycon™ 1101G X50

PBT+PET

TECHNICAL DATA

Product Description

Good appearance, GF30%

Uses

- Automotive Applications
- Bathroom Accessories
- Cosmetics
- Non-specific Food Applications
- Toilet Seats

Processing Method

- Injection Molding

ISO Designation

- >PBT+PET-GF30<

Type

- PBT/Reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.55	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.80	%	
Flow : 3.00 mm	0.20	%	
Water Absorption ² (24 hr, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500	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)	9700	MPa	ISO 178
Flexural Stress (23°C)	220	MPa	ISO 178
Coefficient of Friction - vs. Metal ³	0.15		Suzuki 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)	40.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	91		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	208	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	4.2	cm ³ -5/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.6E+14	ohms·m	IEC 60093
Electric Strength	23	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
23°C, 50 Hz	3.5		
23°C, 1 MHz	3.5		
Dissipation Factor			IEC 60250
23°C, 50 Hz	0.002		
23°C, 1 MHz	0.010		
Arc Resistance	137	sec	IEC 60950
Flammability	Nominal Value	Unit	Test Method
Flame Rating ⁴ (Equivalent)	HB		Internal Method



Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ⁵ (250°C, 1.00 mm)	84	mm	Internal Method

Notes

¹ 80x80x3mm
² in water
³ Without Lubrication
⁴ UL94
⁵ 93MPa

Toray Industries, Inc.

