

Toraycon™ 1154W

PBT+PET

TECHNICAL DATA

Product Description

Low warpage, V-0, (GF+GS)33%

Uses

- Automotive Applications
- Automotive Electronics
- Connectors

Processing Method

- Injection Molding

ISO Designation

- >PBT+PET-(GF+GS)33FR(17)<

Type

- PBT/Flame retardant reinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.65	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.60	%	
Flow : 3.00 mm	0.40	%	
Water Absorption ² (24 hr, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9800	MPa	ISO 527-1
Tensile Strength (23°C)	105	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	9200	MPa	ISO 178
Flexural Stress (23°C)	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	218	°C	ISO 75-2/B
1.8 MPa, Unannealed	194	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	3.7	cm ^{^-5/cm/°C}	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.4E+14	ohms·m	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
23°C, 50 Hz	4.0		
23°C, 1 MHz	3.7		
Dissipation Factor			IEC 60250
23°C, 50 Hz	0.002		
23°C, 1 MHz	0.020		
Arc Resistance	125	sec	IEC 60950
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ³ (250°C, 1.00 mm)	101	mm	Internal Method

Toray Industries, Inc.

