

Toraycon™ 4158G30H SG2

PC+PBT

TECHNICAL DATA

Product Description

Hydrolysis resistance, Low warpage and High laser transmission

Uses	• Automotive Applications	• Connectors	• Electrical/Electronic Applications
	• Automotive Electronics	• Electrical Housing	• Switches
Processing Method	• Injection Molding		
ISO Designation	• >PBT+PC-I-GF30<		

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 2.00 mm	0.90	%	
Flow : 2.00 mm	0.20	%	
Water Absorption (24 hr, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9900	MPa	ISO 527-1
Tensile Strength (23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.6	%	ISO 527-2
Flexural Modulus (23°C)	8900	MPa	ISO 178
Flexural Stress (23°C)	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10.8	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	55.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
CLTE			Internal Method
Flow : -30 to 100°C	2.8	cm ³ -5/cm/°C	
Transverse : -30 to 100°C	4.9	cm ³ -5/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.4E+14	ohms·m	IEC 60093
Electric Strength	26	kV/mm	IEC 60243-1
Dielectric Constant ¹ (2.00 mm, 77.0 GHz)	3.4		Internal Method
Dissipation Factor ¹ (2.00 mm, 77.0 GHz)	0.007		Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating ² (Equivalent)	HB		Internal Method
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length - 50 MPa (260°C, 1.00 mm)	65	mm	Internal Method

Toray Industries, Inc.

