

Toraycon™ 5108 X03

PBT

TECHNICAL DATA

Product Description

Hydrolysis resistance, High impact

Uses • Automotive Applications • Connectors

Processing Method • Injection Molding

ISO Designation • >PBT-I<

Type • PBT/Unreinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.27	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	2.70	%	
Flow : 3.00 mm	2.70	%	
Water Absorption ² (24 hr, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ISO 527-1
Tensile Strength (23°C)	50	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	25	%	ISO 527-2
Flexural Modulus (23°C)	2200	MPa	ISO 178
Flexural Stress (23°C)	75	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	150	°C	ISO 75-2/B
1.8 MPa, Unannealed	55	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	12	cm [^] -5/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+14	ohms·m	IEC 60093
Electric Strength	16	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (Equivalent)	HB		Internal Method

Notes

¹ 80x80x3mm

² in water

³ UL94

Toray Industries, Inc.

