

Toraycon™ 1401 X70 PBT

TECHNICAL DATA

Product Description

Hydrolysis resistance

Uses • Automotive Applications • Connectors

Processing Method • Injection Molding

ISO Designation • >PBT<

Type • PBT/Unreinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.31	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	2.50	%	
Flow : 3.00 mm	2.40	%	
Water Absorption ² (24 hr, 23°C)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2700	MPa	ISO 527-1
Tensile Strength (23°C)	58	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	50	%	ISO 527-2
Flexural Modulus (23°C)	2600	MPa	ISO 178
Flexural Stress (23°C)	87	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	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	60	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	11	cm [^] -5/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.0E+14	ohms·m	IEC 60093
Electric Strength	15	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94

Notes

¹ 80x80x3mm

² in water

Toray Industries, Inc.

