"TORAY"
Innovation by Chemistry

TORAYCON™

Toraycon™ 1401 X45
PBT

TECHNICAL DATA

Product Description
High flow, High cycle

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/cm³	ISO 1183
Molding Shrinkage [1]			Internal Method
Across Flow : 3.00 mm	2.40	%	
Flow : 3.00 mm	2.20	%	
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)	60	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	55	%	ISO 527-2
Flexural Modulus (23°C)	2500	MPa	ISO 178
Flexural Stress (23°C)	87	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	4.6	kJ/m²	ISO 179
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 23°C)	77		ISO 2039-2
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	17	kV/mm	IEC 60243-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	HB		UL 94
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Bar Flow Length [3] (250°C, 1.00 mm)	133	mm	Internal Method

Notes

[1] 80x80x3mm

[2] in water

[3] 93MPa

Toray Industries, Inc.