

Toraycon™ 5201 X11

PBT

TECHNICAL DATA

Product Description

Soft, High impact

Uses

- Automotive Applications
- Automotive Electronics
- Connectors
- Fasteners

Processing Method

- Extrusion
- Injection Molding

ISO Designation

- >PBT-HI<

Type

- PBT/Unreinforced

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	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)	1600	MPa	ISO 527-1
Tensile Strength (23°C)	35	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	72	%	ISO 527-2
Flexural Modulus (23°C)	1500	MPa	ISO 178
Flexural Stress (23°C)	60	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	65.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	> 280.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	55		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	50	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	16	cm ³ /cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+14	ohms·m	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Dielectric Constant			IEC 60250
23°C, 50 Hz	3.1		
23°C, 1 MHz	3.3		
Dissipation Factor			IEC 60250
23°C, 50 Hz	0.002		
23°C, 1 MHz	0.020		
Arc Resistance	133	sec	IEC 60950
Flammability	Nominal Value	Unit	Test Method
Flame Rating ³ (Equivalent)	HB		Internal Method
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ⁴ (250°C, 1.00 mm)	63	mm	Internal Method

