

Toraycon® 5201X11

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 5201X11 is a Polybutylene Terephthalate (PBT) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
Features	High Impact Resistance		
	Soft		
Part Marking Code	>PBT-HI<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	2.5	%	
Flow : 3.00 mm ²	2.4	%	
Water Absorption (23°C, 24 hr)	0.080	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	55		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1600	MPa	ISO 527-2
Tensile Stress (23°C)	35.0	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)	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	65	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	280	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	1.6E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms·cm	IEC 60093
Electric Strength	19	kV/mm	IEC 60243-1
Dielectric Constant ³			IEC 60250
23°C, 50 Hz	3.10		

23°C, 1 kHz	3.30		
Dissipation Factor ⁴			IEC 60250
23°C, 50 Hz	2.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance ⁵	133	sec	IEC 60950
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ⁶ (250°C, 1.00 mm)	6.30	cm	Internal Method
NOTE			
1.	80x80x3		
2.	80x80x3mm		
3.	60% RH		
4.	60% RH		
5.	Tungsten Electrode		
6.	93 MPa		

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