

Toraycon® 1401X31

Polybutylene Terephthalate

Toray Resin Company

Message:

Toraycon® 1401X31 is a Polybutylene Terephthalate (PBT) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

High Flow

General Information			
Features	High Flow		
Part Marking Code	>PBT<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.31	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	2.3	%	
Flow : 3.00 mm ²	1.7	%	
Water Absorption (23°C, 24 hr)	0.080	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	77		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2700	MPa	ISO 527-2
Tensile Stress (23°C)	55.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	10	%	ISO 527-2
Flexural Modulus (23°C)	2500	MPa	ISO 178
Flexural Stress (23°C)	85.0	MPa	ISO 178
Coefficient of Friction ³	0.17		
Coefficient of Friction - vs. Metal ⁴	0.130		Suzuki Method
Bar Flow Length ⁵ (250°C, 1.00 mm)	159	mm	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	160	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
CLTE - Flow (-30 to 100°C)	1.1E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.0E+16	ohms · cm	IEC 60093
Electric Strength	17	kV/mm	IEC 60243-1
Dielectric Constant ⁶			IEC 60250

23°C, 50 Hz	3.30		
23°C, 1 kHz	3.30		
Dissipation Factor ⁷			IEC 60250
23°C, 50 Hz	2.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance ⁸	144	sec	IEC 60950
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 mm)	HB		UL 94
NOTE			
1.	80x80x3		
2.	80x80x3mm		
3.	vs. Metal		
4.	Without Lubrication		
5.	93 MPa		
6.	60% RH		
7.	60% RH		
8.	Tungsten Electrode		

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