Toraycon™ 5001G-30
PBT

TECHNICAL DATA

Product Description

Hydrolysis resistance, Heat cycle resistance, GF30%

Uses	• Automotive Applications	• Automotive Electronics	• Automotive Under the Hood
Processing Method	• Injection Molding		
ISO Designation	• >PBT-I-GF30<		
Type	• PBT/Reinforced		

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.45	g/cm³	ISO 1183
Molding Shrinkage [1]			Internal Method
Across Flow : 3.00 mm	1.10	%	
Flow : 3.00 mm	0.40	%	
Water Absorption [2] (24 hr, 23°C)	0.070	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	8300	MPa	ISO 527-1
Tensile Strength (23°C)	120	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.9	%	ISO 527-2
Flexural Modulus (23°C)	7600	MPa	ISO 178
Flexural Stress (23°C)	185	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	14.5	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Coefficient of Linear Thermal Expansion (-30 to 100°C)	3.2	cm^-5/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Electric Strength	25	kV/mm	IEC 60243-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [3] (Equivalent)	HB		Internal Method

Notes

[1] 80x80x3mm

[2] in water

[3] UL94

Toray Industries, Inc.