

Toraycon™ EC44G-30
PBT+PET

TECHNICAL DATA

Product Description

V-0, GF30%

Uses	<ul style="list-style-type: none"> Automotive Applications Automotive Electronics Computer Components
Processing Method	<ul style="list-style-type: none"> Injection Molding
ISO Designation	<ul style="list-style-type: none"> >PBT+PET-GF30FR(40)<
Type	<ul style="list-style-type: none"> PBT/Non-halogen, Flame retardant reinforced

ASTM & ISO Properties

	Nominal Value	Unit	Test Method
Physical			
Density (23°C)	1.65	g/cm ³	ISO 1183
Molding Shrinkage ¹			Internal Method
Across Flow : 3.00 mm	0.80	%	
Flow : 3.00 mm	0.20	%	
Water Absorption ² (24 hr, 23°C)	0.070	%	ISO 62
Mechanical			
Tensile Modulus (23°C)	11500	MPa	ISO 527-1
Tensile Strength (23°C)	110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.3	%	ISO 527-2
Flexural Modulus (23°C)	10800	MPa	ISO 178
Flexural Stress (23°C)	160	MPa	ISO 178
Impact			
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Thermal			
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)	4	cm ⁻⁵ /cm/°C	ISO 11359-2
Electrical			
Volume Resistivity	1.3E+15	ohms·m	IEC 60093
Electric Strength	26	kV/mm	IEC 60243-1
Arc Resistance	200	sec	IEC 60950
Comparative Tracking Index (CTI)	PLC 0		UL 746A
Flammability			
Flame Rating (0.75 mm)	V-0		UL 94
Additional Information			
Bar Flow Length ³ (250°C, 1.00 mm)	110	mm	Internal Method

Toray Industries, Inc.

