

General Information**Product Description**

PBT alloy GF-reinforced / HB, Good surface finish, GF 30%

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Good Surface Finish
Uses	• Automotive Applications • Automotive Electronics • Electrical/Electronic Applications • General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/2.16 kg)	39	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9200	MPa	ISO 527-1/1
Tensile Stress (Break)	115	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	9000	MPa	ISO 178
Flexural Stress ²	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	48	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	218	°C	ISO 75-2/B
1.8 MPa, Annealed	180	°C	ISO 75-2/A
RTI Elec (0.75 mm)	75.0	°C	UL 746B
RTI Imp (0.75 mm)	75.0	°C	UL 746B
RTI Str (0.75 mm)	75.0	°C	UL 746B
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	27	kV/mm	
2.00 mm	23	kV/mm	
Dielectric Constant (1 MHz)	3.30		IEC 60250
Dissipation Factor (1 MHz)	0.014		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	HB		UL 94



NOVADURAN™ 5308G30 HX3

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate + PET

Processing Information		
Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	120	°C
Drying Time - Hot Air Dryer	5.0 to 8.0	hr
Rear Temperature	250 to 270	°C
Middle Temperature	250 to 270	°C
Front Temperature	250 to 270	°C
Nozzle Temperature	270	°C
Mold Temperature	60 to 100	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate-Fast	
Screw Speed	80 to 120	rpm

