

General Information**Product Description**

Filler-Reinforced / HB (1.5mm) equivalent per in-house testing, Tracking resistant

General

Filler / Reinforcement	• Filler, 40% Filler by Weight
Features	• Tracking Resistant
Uses	• Automotive Applications • Automotive Electronics • Electrical/Electronic Applications • General Purpose

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	23	cm ³ /10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-1/1
Tensile Stress (Break)	99.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	8900	MPa	ISO 178
Flexural Stress ²	150	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)	32	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	192	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3
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 (1.00 mm)	43	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60		IEC 60250
Dissipation Factor (1 MHz)	0.012		IEC 60250

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



NOVADURAN™ 5010GP20

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate

Injection	Nominal Value	Unit
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

