

General Information

Product Description

GF-reinforced / Flame Retardant (Bromine Free), Tracking resistant, Low gas emission, GF 30%

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Bromine Free	• Low to No Outgassing
	• Flame Retardant	• Tracking Resistant
Uses	• Automotive Applications	• Electrical/Electronic Applications
	• Automotive Electronics	• General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	17	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	0.40	%	
Flow : 2.00 mm	1.1	%	
Water Absorption (Saturation, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-1/1
Tensile Stress (Break)	110	MPa	ISO 527-2/5
Tensile Strain (Break)	2.3	%	ISO 527-2/5
Flexural Modulus ²	10800	MPa	ISO 178
Flexural Stress ²	165	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	43	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	> 220	°C	ISO 75-2/B
1.8 MPa, Annealed	210	°C	ISO 75-2/A
Melting Temperature	224	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : -30 to 35°C	2.3E-5	cm/cm/°C	
Flow : -30 to 120°C	1.9E-5	cm/cm/°C	
Flow : 35 to 120°C	1.6E-5	cm/cm/°C	
Transverse : -30 to 35°C	6.6E-5	cm/cm/°C	
Transverse : -30 to 120°C	9.3E-5	cm/cm/°C	
Transverse : 35 to 120°C	1.1E-4	cm/cm/°C	
RTI Elec (0.75 mm)	75.0	°C	UL 746B



NOVADURAN™ SEF-530X

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate

Thermal	Nominal Value	Unit	Test Method
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	2.0E+16	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Electric Strength (2.00 mm)	30	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.90		IEC 60250
Dissipation Factor (1 MHz)	0.013		IEC 60250
Comparative Tracking Index (CTI)	PLC 0		UL 746A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.75 mm)	V-0		UL 94

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 150	rpm

