

**NOVADURAN 5308G30 HX3**

(PBT+PET)-GF30

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	39	cm <sup>3</sup> /10min	ISO 1133
Temperature	280	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	9200	MPa	ISO 527
Stress at break	115	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus, 23°C	9000	MPa	ISO 178
Flexural strength	200	MPa	ISO 178
Charpy impact strength, +23°C	48	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	8	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	180	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	218	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.3	-	IEC 62631-2-1
Dissipation factor, 1MHz	140	E-4	IEC 62631-2-1
Volume resistivity	1E14	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
Electric strength	27	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Water absorption	0.07	%	Sim. to ISO 62
Density	1520	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	5 - 8	h	-
Mold temperature	40 - 100	°C	-
Zone 1	250 - 270	°C	-
Zone 2	250 - 270	°C	-
Zone 3	250 - 270	°C	-
Nozzle temperature	270	°C	-
Screw speed	80 - 120	rpm	-
Injection pressure	20 - 150	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive, Electrical and Electronical, General Purpose

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa