

**NOVADURAN 5320F20**

(PBT+PET)-X20

Mitsubishi Engineering-Plastics Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	43	cm <sup>3</sup> /10min	ISO 1133
Temperature	270	°C	-
Load	2.16	kg	-
Molding shrinkage, parallel	1.2	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	5200	MPa	ISO 527
Stress at break	58	MPa	ISO 527
Strain at break	2.3	%	ISO 527
Flexural modulus, 23°C	5000	MPa	ISO 178
Flexural strength	100	MPa	ISO 178
Charpy impact strength, +23°C	25	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	2	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 0.45 MPa	185	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	63	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10

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	3E14	Ohm*m	IEC 62631-3-1
Surface resistivity	3E15	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Water absorption	0.1	%	Sim. to ISO 62
Density	1460	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	60 - 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

**Features**

Low Warpage

**Applications**

Automotive, Electrical and Electronical, General Purpose

**Regional Availability**

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