

NOVADURAN™ 5320GT20

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate + PET

General Information

Product Description

PBT alloy GF-reinforced (20%)/ HB equiv. Tracking Resistant 425V equiv., per in-house testing, Low Warpage

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight	
Features	• Low Warpage	• Tracking Resistant
Uses	• Automotive Applications • Automotive Electronics	• Electrical/Electronic Applications • General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (265°C/5.0 kg)	47	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 2.00 mm	0.71	%	
Flow : 2.00 mm	0.35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7970	MPa	ISO 527-1/1
Tensile Stress (Break)	116	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Modulus ²	6570	MPa	ISO 178
Flexural Stress ²	163	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179

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

