Polybutylene Terephthalate + PET Mitsubishi Engineering-Plastics Corp

## **Technical Data**

Product Description					
PBT alloy GF-reinforced / HB equivalent per in-house testing, Rigidity High, GF 55%					
General					
Material Status	<ul> <li>Commercial: Active</li> </ul>				
Search for UL Yellow Card	<ul> <li>Mitsubishi Engineering-Plastics Corp</li> <li>NOVADURAN™</li> </ul>				
Availability	<ul><li> Africa &amp; Middle East</li><li> Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America		
Filler / Reinforcement	<ul> <li>Glass Fiber, 55% Filler by Weight</li> </ul>				
Features	High Rigidity				
Uses	<ul><li>Automotive Applications</li><li>Automotive Electronics</li></ul>	<ul> <li>Electrical/Electronic Applications</li> <li>General Purpose</li> </ul>			

Physical	Nominal Value Unit	Test Method
Density	1.81 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (265°C/5.0 kg)	9.00 cm³/10min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow	0.60 %	
Flow	0.20 %	
Water Absorption (Saturation, 23°C)	0.070 %	ISO 62
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	21100 MPa	ISO 527-2/1
Tensile Stress (Break)	171 MPa	ISO 527-2/5
Tensile Strain (Break)	2.0 %	ISO 527-2/5
Flexural Modulus <sup>2</sup>	17900 MPa	ISO 178
Flexural Stress <sup>2</sup>	260 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	10 kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	60 kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Annealed	> 220 °C	ISO 75-2/B
1.8 MPa, Annealed	210 °C	ISO 75-2/A
Melting Temperature	255 °C	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	5.0E+16 ohms	IEC 60093
Volume Resistivity	2.0E+16 ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.40	IEC 60250
Dissipation Factor (1 MHz)	0.016	IEC 60250

Injection	Nominal Value Unit
Drying Temperature - Hot Air Dryer	120 °C
Drying Time - Hot Air Dryer	5.0 to 8.0 hr
Rear Temperature	240 °C
Middle Temperature	245 °C
Front Temperature	255 °C
Nozzle Temperature	255 °C
Mold Temperature	80 to 100 °C
Injection Pressure	20.0 to 150 MPa
Injection Rate	Moderate-Fast

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# NOVADURAN™ 5308G55

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### Injection

Screw Speed

PROSPECTOR® www.ulprospector.com

Nominal Value Unit

80 to 120 rpm

# Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 mm/min



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## Where to Buy

#### Supplier

Mitsubishi Engineering-Plastics Corp , Japan

Telephone: +81-463-21-8610 Web: http://www.m-ep.co.jp/

### Distributor

Chase Plastic Services, Inc. Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: http:// www.chaseplastics.com/contact/locations Telephone: 800-232-4273 Web: http://www.chaseplastics.com/ Availability: North America

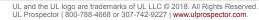
#### **Nexeo Solutions - Europe**

Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country. Telephone: +34-93-480-9125 Web: http://www.nexeosolutions.com/ Availability: Belgium, Bulgaria, Czech Republic, France, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Poland, Portugal, Romania, Russian Federation, Slovakia, Spain, United Kingdom

### The Materials Group

Telephone: 616-863-6046 Web: http://thematerialsgroup.com/ Availability: North America





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