

NOVADURAN™ 5308F20

Polybutylene Terephthalate + PET

Mitsubishi Engineering-Plastics Corp

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

PBT alloy Filler-reinforced / HB (0.75mm) equivalent per in-house testing, Filler 20% / Low Warpage

General

Material Status	• Commercial: Active		
Search for UL Yellow Card	• Mitsubishi Engineering-Plastics Corp • NOVADURAN™		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Filler, 20% Filler by Weight		
Features	• Low Warpage		
Uses	• Automotive Applications • Automotive Electronics	• Electrical/Electronic Applications • General Purpose	

Physical	Nominal Value Unit	Test Method
Density	1.49 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (265°C/2.16 kg)	55.0 cm ³ /10min	ISO 1133
Molding Shrinkage		Internal Method
Across Flow : 2.00 mm	1.6 %	
Flow : 2.00 mm	1.4 %	
Water Absorption (Saturation, 23°C)	0.10 %	ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	5200 MPa	ISO 527-2/1
Tensile Stress (Break)	58.0 MPa	ISO 527-2/5
Tensile Strain (Break)	2.3 %	ISO 527-2/5
Flexural Modulus ²	5000 MPa	ISO 178
Flexural Stress ²	100 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	25 kJ/m ²	ISO 179

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Annealed	195 °C	ISO 75-2/B
1.8 MPa, Annealed	115 °C	ISO 75-2/A
CLTE		ISO 11359-2
Flow : -30 to 35°C	4.6E-5 cm/cm/°C	
Flow : -30 to 120°C	6.3E-5 cm/cm/°C	
Flow : 35 to 120°C	7.7E-5 cm/cm/°C	
Transverse : -30 to 35°C	6.0E-5 cm/cm/°C	
Transverse : -30 to 120°C	8.0E-5 cm/cm/°C	
Transverse : 35 to 120°C	9.5E-5 cm/cm/°C	

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	3.0E+15 ohms	IEC 60093
Volume Resistivity	3.0E+16 ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.30	IEC 60250
Dissipation Factor (1 MHz)	0.014	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



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Injection	Nominal Value Unit
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
Screw Speed	80 to 120 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

² 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

