Polybutylene Terephthalate + PET Mitsubishi Engineering-Plastics Corp

Technical Data

Product Descriptio	n
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PBT alloy Filler-reinforced / HB (0.7	'5mm) equivalent per in-house testin	g, Filler 20% / Low Warpage	
General			
Material Status	 Commercial: Active 		
Search for UL Yellow Card	 Mitsubishi Engineering-Plas NOVADURAN™ 	stics Corp	
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Filler / Reinforcement	Filler, 20% Filler by Weight		
Features	 Low Warpage 		
Uses	Automotive ApplicationsAutomotive 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 cm³/10min	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



1 of 3

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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



2 of 3

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Polybutylene Terephthalate + PET Mitsubishi Engineering-Plastics Corp



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

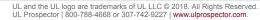
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