

NOVADURAN™ 5308FDV-K2D

Mitsubishi Engineering-Plastics Corp - Polybutylene Terephthalate + PET

General Information

Product Description

PBT alloy Filler-reinforced(<10%)/ HB equiv. per in-house testing, Gloss High, Outgassing Low

General

Filler / Reinforcement	• Filler	
Features	• Good Mold Release	• High Gloss
Uses	• Automotive Applications	• Electrical/Electronic Applications
	• Automotive Electronics	• General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (265°C/2.16 kg)	48	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.7	%	
Flow	1.6	%	
Water Absorption (Saturation, 23°C)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-1/1
Tensile Stress (Break)	60.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus ²	2950	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)	95	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Annealed	165	°C	ISO 75-2/B
1.8 MPa, Annealed	67.0	°C	ISO 75-2/A
Melting Temperature	255	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow : 35 to 120°C	1.3E-4	cm/cm/°C	
Transverse : 35 to 120°C	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+15	ohms	IEC 60093
Volume Resistivity	4.0E+14	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.30		IEC 60250
Dissipation Factor (1 MHz)	2.2E-3		IEC 60250

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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	40 to 90	°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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