

Iuplace™ VSG635V 9001P

Mitsubishi Engineering-Plastics Corp - Polyphenylene Ether + PS

General Information

Product Description

Damping; GF+Filler reinforced

General

Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight
Features	• Vibration Damping
Uses	• Automotive Applications • Automotive Electronics • Electrical/Electronic Applications • General Purpose

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	9.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Across Flow : 3.20 mm	0.20 to 0.40	%	
Flow : 3.20 mm	0.10 to 0.30	%	
Water Absorption (Saturation, 23°C)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8600	MPa	ISO 527-1/1
Tensile Stress (Break)	74.0	MPa	ISO 527-2/5
Tensile Strain (Break)	1.2	%	ISO 527-2/5
Flexural Modulus ²	8500	MPa	ISO 178
Flexural Stress ²	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	120	°C	ISO 75-2/B
1.8 MPa, Unannealed	115	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	
Transverse	6.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+14	ohms	IEC 60093
Volume Resistivity	4.0E+15	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	V-1		UL 94

Notes

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

² 2.0 mm/min

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