

Iupiace® VSG635V

Polyphenylene Ether + PS

Mitsubishi Engineering-Plastics Corp

Message:

Iupiace® VSG635V is a Polyphenylene Ether + PS (PPE+PS) material filled with 35% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupiace® VSG635V: Flame Rated.

General Information			
UL YellowCard	E167806-100701643	E167806-225158	E41179-231990
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Vibration Damping		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	6.00	cm ³ /10min	ISO 1133
Molding Shrinkage			
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 (23°C)	8600	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	74.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.2	%	ISO 527-2
Flexural Modulus (23°C)	8500	MPa	ISO 178
Flexural Stress (23°C)	127	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
Heat Deflection Temperature			
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 (1.50 mm)	V-1		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	60.0 to 100	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	240 to 270	°C
Middle Temperature	250 to 290	°C
Front Temperature	250 to 290	°C
Nozzle Temperature	250 to 280	°C
Mold Temperature	80.0 to 100	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate	
Screw Speed	60 to 150	rpm

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