

Iupiace® GN20

Polyphenylene Ether + PS

Mitsubishi Engineering-Plastics Corp

Message:

Iupiace® GN20 is a Polyphenylene Ether + PS (PPE+PS) material filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of Iupiace® GN20: Flame Rated.

General Information			
UL YellowCard	E41179-232052		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/2.16 kg)	3.40	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)	6700	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	99.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	ISO 527-2
Flexural Modulus (23°C)	6200	MPa	ISO 178
Flexural Stress (23°C)	154	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	132	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	3.0E-5	cm/cm/°C	
Transverse	6.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms · cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	25	kV/mm	
3.00 mm	17	kV/mm	
Relative Permittivity			IEC 60250

100 Hz	3.40		
1 MHz	3.30		
Dissipation Factor			IEC 60250
100 Hz	4.5E-3		
1 MHz	5.5E-3		
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-1		
1.50 mm	V-0		
3.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	260 to 290	°C	
Middle Temperature	280 to 310	°C	
Front Temperature	280 to 310	°C	
Nozzle Temperature	270 to 310	°C	
Mold Temperature	90.0 to 125	°C	
Injection Pressure	20.0 to 150	MPa	
Injection Rate	Moderate		
Screw Speed	60 to 150	rpm	

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