

Iupiace® AP6GM4

Polyphenylene Ether + PS

Mitsubishi Engineering-Plastics Corp

Message:

Iupiace® AP6GM4 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.

Important attributes of Iupiace® AP6GM4 are:

Flame Rated

High Flow

General Information			
UL YellowCard	E167806-225195	E41179-100346200	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	High Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	31.0	cm³/10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.30 to 0.50	%	
Flow : 3.20 mm	0.20 to 0.40	%	
Water Absorption (Saturation, 23°C)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5700	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	80.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	%	ISO 527-2
Flexural Modulus (23°C)	5500	MPa	ISO 178
Flexural Stress (23°C)	132	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	3.7E-5	cm/cm/°C	
Transverse	6.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	5.0E+15	ohms·cm	IEC 60093
Electric Strength			IEC 60243-1
1.00 mm	35	kV/mm	

3.00 mm	18	kV/mm	
Relative Permittivity			IEC 60250
100 Hz	3.20		
1 MHz	3.10		
Dissipation Factor			IEC 60250
100 Hz	5.7E-3		
1 MHz	6.7E-3		
Comparative Tracking Index	200	V	IEC 60112
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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