

lupiace® AP4

Polyphenylene Ether + PS

Mitsubishi Engineering-Plastics Corp

Message:

lupiace® AP4 is a Polyphenylene Ether + PS (PPE+PS) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of lupiace® AP4 are:

Flame Rated

High Flow

General Information			
UL YellowCard	E167806-225186		
Features	High Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.11	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	70.0	cm ³ /10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.50 to 0.70	%	
Flow : 3.20 mm	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	49.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.2	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	45	%	ISO 527-2
Flexural Modulus (23°C)	2400	MPa	ISO 178
Flexural Stress (23°C)	82.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	50.0 to 90.0	°C	

Drying Time	2.0 to 4.0	hr
Rear Temperature	230 to 260	°C
Middle Temperature	250 to 280	°C
Front Temperature	250 to 280	°C
Nozzle Temperature	240 to 260	°C
Mold Temperature	70.0 to 90.0	°C
Injection Pressure	20.0 to 150	MPa
Injection Rate	Moderate	
Screw Speed	60 to 150	rpm

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