

LUPOY GP1006FM

Injection Molding, PC

Description

Flame Retardant

Application

IT/OA , E&E (Housing & Components)

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.20
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.5~0.8
Melt Flow Rate	300℃, 1.2kg	ASTM D1238	g/10min	11
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50 mm/min		kg/cm ²	630
Flexural Strength, 3.2mm	10 mm/min	ASTM D790	kg/cm ²	1,000
Flexural Modulus, 3.2mm	10 mm/min	ASTM D790	kg/cm ²	23,000
IZOD Impact Strength, 3.2mm (Notched)	23℃ -30℃	ASTM D256	kg·cm/cm kg·cm/cm	80
Rockwell Hardness	R-Scale	ASTM D785	-	
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg 4.6kg	ASTM D648	℃ ℃	130
Flammability		UL94		
1.0mm			class	V0
2.5mm			class	V0, 5VA
3.0mm			class	V0, 5VA
Relative Temperature Index		UL 746B		
Electrical			℃	120
Mechanical with Impact			℃	110
Mechanical without Impact			℃	120
Glow Wire Flammability Index(GWFI)		IEC 60695-2-13		
0.8mm			℃	
1.6mm			℃	
3.2mm			℃	
Glow Wire Ignition Temp.(GWIT)		IEC 60695-2-13		
0.8mm			℃	
1.6mm			℃	
3.2mm			℃	

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection molded specimens and after 48 hours storage at 23℃, 50% relative humidity.

Updated : Feb. 24. 2020

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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts
Surface Resistivity		IEC 60093	Ohm
Volume Resistivity	23°C	ASTM D257	Ohm·m
Arc Resistance	23°C	ASTM D495	Ohm·cm
Dielectric Strength, 1mm	23°C	ASTM D149	kV/mm
Dielectric Constant (10 ⁶ Hz)	23°C	ASTM D150	sec

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		°C	100 ~ 120
Drying Time		hrs	3 ~ 5
Maximum Moisture Content		%	0.02
Melt Temperature		°C	300 ~ 320
Cylinder Temperature	Rear	°C	260 ~ 280
	Middle	°C	280 ~ 300
	Front	°C	300 ~ 320
Nozzle Temperature		°C	300 ~ 320
Mold Temperature		°C	80 ~ 120

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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