

LUPOY GP1006FH

Injection molding , PC

Description

Flame Retardent, High Impact

Application

E&E

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.21
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.5~0.7
Melt Flow Rate	300°C/1.2 kg	ASTM D1238	g/10min	12
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	600
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	
@ Break	50mm/min		%	>100
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	
Flexural Strength, 3.2mm	10mm/min	ASTM D790	kg/cm ²	920
Flexural Modulus, 3.2mm	10mm/min	ASTM D790	kg/cm ²	21,000
IZOD Impact Strength, 3.2mm (Notched)		ASTM D256		
	23°C		kg-cm/cm	62
	-30°C		kg-cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)		ASTM D648		
	18.6kg		°C	130
	4.6kg		°C	
Vicat Softening Temperature		ASTM D1525		
	5kg, 50°C/h		°C	
Ball Pressure Temperature		IEC 60695-10-2	°C	
Burning Rate, 3.2mm		FMVSS 302	mm	
Flammability		UL94		
0.7mm			class	V-0
1.2mm			class	V-0
1.5mm			class	V-0, 5VA
3.0mm			class	V-0, 5VA
Relative Temperature Index		UL 746B		
Electrical			°C	120
Mechanical with Impact			°C	110
Mechanical without Impact			°C	120

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 moludled specimens and after 48 hours storage at 23°C, 50% relative humidity.

Updated : Nov-09, 2009

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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
Minimum Moisture Content		%	0.02
Melt Temperature		°C	300 ~ 320
Melt Temperature	Rear	°C	260 ~ 280
	Middle	°C	280 ~ 300
	Front	°C	300 ~ 320
Nozzle Temperature		°C	300 ~ 320
Mold Temperature		°C	80 ~ 120
Back Pressure		kg/cm ²	10 ~ 40
Screw Speed		rpm	40 ~ 70

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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