

LUPOY EF1006FML

Injection Molding, PC

Description

Halogen Free Flame Retardant, Heat Resistant
Chemical Resistance, High Impact

Application

IT/OA Housing and Components (Charger/Adaptor)

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.2
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.5 ~ 0.8
Melt Flow Rate	300°C/1.2kg	ASTM D1238	g/10min	15
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	630
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	940
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	60
	-30°C		kg-cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)		ASTM D648		
	18.6kg		°C	128
	4.6kg		°C	
Vicat Softening Temperature		ASTM D1525		
	5kg, 50°C/h		°C	135
Ball Pressure Temperature		IEC 60695-10-2	°C	125
Burning Rate, 3.2mm		FMVSS 302	mm	
Flammability		UL94		
1.0mm			class	V-0
1.5mm			class	V-0
1.7mm			class	V-0, 5VB
2.5mm			class	V-0, 5VA
Relative Temperature Index		UL 746B		
Electrical			°C	120
Mechanical with Impact			°C	115
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 moulded specimens and after 48 hours storage at 23°C, 50% relative humidity.

Updated : May-12, 2014

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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	110 ~ 130
Drying Time		hrs	4 ~ 6
Maximum Moisture Content		%	0.05
Melt Temperature		°C	270 ~ 305
Cylinder Temperature	Rear	°C	260 ~ 280
	Middle	°C	265 ~ 290
	Front	°C	270 ~ 300
Nozzle Temperature		°C	270 ~ 285
Mold Temperature		°C	90 ~ 130
Back Pressure		kg/cm ²	10 ~ 30
Screw Speed		rpm	40 ~ 80

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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