LUPOY HR5007A

Injection Molding, PC/ABS, Non-flame Retardancy

Description

General Purpose , High Heat Resistance

Application

Auto, Electronics, Home Appliances, Industrial Goods

Properties	Condition	Method	Unit	Typical Value
Physical				
Specific Gravity	23℃	ASTM D792		1.14
Shrinkage		ASTM D955		
Flow	2.0mm		%	0.5~0.8
Cross-flow	2.0mm		%	0.6~0.9
Melt Flow Rate	250℃, 2.16kg	ASTM D1238	g/10min	5.3
Water Absorption	23°C, 50% RH	ASTM D570	%	0.20
Mechanical				
Tensile Strength		ASTM D638		
@Yield	3.2mm, 50mm/min		kgf/cm²	550
@Break	3.2mm, 50mm/min		kgf/cm²	630
Tensile Elongation		ASTM D638		
@Yield	3.2mm, 50mm/min		%	5
@Break	3.2mm, 50mm/min		%	103
Tensile Modulus	3.2mm, 50mm/min	ASTM D638	kgf/cm²	24,640
Flexural Strength	3.2mm, 10mm/min	ASTM D790	kgf/cm²	890
Flexural Modulus	3.2mm, 10mm/min	ASTM D790	kgf/cm²	21,500
IZOD Impact Strength		ASTM D256		
3.2mm, Notched	23℃		kgf·cm/cm	65.0
	-30℃		kgf·cm/cm	50.0
6.4mm, Notched	23℃		kgf·cm/cm	47.0
	-30℃		kgf·cm/cm	22.0
	-40℃		kgf·cm/cm	18.0
Rockwell Hardness	R-Scale	ASTM D785		114
Thermal				
Heat Deflection Temperature		ASTM D648		
4.6kgf	6.4mm, Unannealed		℃	131
18.6kgf	6.4mm, Unannealed		℃	113
Vicat Softening Temperature	5kg, 50℃/hr	ASTM D1525	℃	128
Coefficient of Linear Thermal Expansion		ASTM D696		
Flow	-30℃ ~ 80℃		10^{-6}m/m·℃	60
Cross-flow	-30℃ ~ 80℃		10^{-6}m/m·℃	59

Note) Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors.
Values given should not be interpreted as specification and not be used for designing part or tool.
All properties, except melt flow rate are measured by injection molded specimens after 48 hours storage at 23℃, 50% relative humidity.

Issued Date : 2026-08-04

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Flammability

Flammability		UL94		
			mm, Class	0.76mm, HB
Relative Temperature Index(RTI)		UL746B		
Electrical	Min. Thickness		mm	0.76
	Temp		℃	60
	Max. Temp		℃	60
	Thickness		mm	0.76
Mechanical With Impact	Min. Thickness		mm	0.76
	Temp		℃	60
	Max. Temp		℃	60
	Thickness		mm	0.76
Mechanical Without Impact	Min. Thickness		mm	0.76
	Temp		℃	60
	Max. Temp		℃	60
	Thickness		mm	0.76

Electrical

Comparative Tracking Index(CTI)	Solution A	UL746A	PLC	0
Surface Resistivity	23℃	ASTM D257	Ohm	1E+15
Volume Resistivity	23℃	ASTM D257	Ohm·cm	1E+15
Dielectric Constant	23°C	ASTM D150		2.8
Dielectric Strength	23℃, 2.0mm	ASTM D149	kV/mm	21

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Processing Conditions (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		℃	80~100
Drying Time		hrs	3~5
Maximum Moisture Content		%	0.02
Melt Temperature		℃	240~270
Cylinder Temperature	Rear	℃	240~270
	Middle	℃	245~275
	Front	℃	245~275
Nozzle Temperature		℃	245~275
Mold Temperature		℃	60~80

Note) 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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