

LUPOY GP5008A

Injection molding, PC/ABS

Description

General Purpose, Heat Resistance

Application

Miscellaneous Goods

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.1
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.5~0.8
Melt Flow Rate	250 °C/2.16kg	ASTM D1238	g/10min	2
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	400
Tensile Elongation, 3.2mm		ASTM D638		
@ Break	50mm/min		%	
Flexural Strength, 3.2mm	10.0mm/min	ASTM D790	kg/cm ²	610
Flexural Modulus, 3.2mm	10.0mm/min	ASTM D790	kg/cm ²	17,000
IZOD Impact Strength, 3.2mm (Notched)		ASTM D256		
	23 °C		kg-cm/cm	46
	-30 °C		kg-cm/cm	
Rockwell Hardness	R-Scale	ASTM D785	-	
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)		ASTM D648		
	18.6kg		°C	91
	4.6kg		°C	
Vicat Softening Temperature		ASTM D1525		
	5kg, 50 °C/h		°C	
Flammability		UL94		
1.5mm			class	
3.2mm			class	
Relative Temperature Index		UL 746B		
Electrical			°C	
Mechanical with Impact			°C	
Mechanical without Impact			°C	

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.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value	
Drying Temperature	°C	80~90	
Drying Time	hrs	4~6	
Maximum Moisture Content	%	0.02	
Melt Temperature	°C	235 ~ 250	
Cylinder Temperature	Rear	°C	230 ~ 250
	Middle	°C	235 ~ 255
	Front	°C	235 ~ 255
Nozzle Temperature	°C	235 ~ 255	
Mold Temperature	°C	50 ~ 70	
Back Pressure	kg/cm ²		
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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