

LUPOY HR5007AC

Injection molding, PC/ABS

Description

Heat Resistance, High Flow, High Impact

Application

Automotive(Interior), E&E(Housing)

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.14
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.5~0.8
Melt Flow Rate	250 °C/2.16kg	ASTM D1238	g/10min	4.2
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	530
Tensile Elongation, 3.2mm		ASTM D638		
@ Break	50mm/min		%	110
Flexural Strength, 3.2mm	10mm/min	ASTM D790	kg/cm ²	830
Flexural Modulus, 3.2mm	10mm/min	ASTM D790	kg/cm ²	22,000
IZOD Impact Strength, 3.2mm (Notched)	23 °C	ASTM D256	kg·cm/cm	65
	-30 °C		kg·cm/cm	52
Rockwell Hardness	R-Scale	ASTM D785	-	113
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	115
	4.6kg		°C	
Vicat Softening Temperature	5kg, 50 °C/h	ASTM D1525	°C	
Flammability		UL94		
1.5mm			class	HB
3.2mm			class	HB
Relative Temperature Index		UL 746B		
Electrical			°C	60
Mechanical with Impact			°C	60
Mechanical without Impact			°C	60

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 °C, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		°C	80~100
Drying Time		hrs	4~6
Maximum Moisture Content		%	0.02
Melt Temperature		°C	240 ~ 270
Cylinder Temperature	Rear	°C	240 ~ 270
	Middle	°C	245 ~ 275
	Front	°C	245 ~ 275
Nozzle Temperature		°C	245 ~ 275
Mold Temperature		°C	50 ~ 70
Back Pressure		kg/cm ²	5~15
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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