

LUPOY HR5006A

Injection Molding, ABS+PC Resin

Description

low temperature impact resistance Rohs compliant

Application

IT/OA, Electric & Electronic Housing and Auto

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.13
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.5~0.8
Melt Flow Rate	250°C/2. 16kg	ASTM D1238	g/10min	4
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	5mm/min		kg/cm ²	550
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	5mm/min		%	
@ Break	5mm/min		%	100
Tensile Modulus, 3.2mm		ASTM D638	kg/cm ²	
Flexural Strength, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	800
Flexural Modulus, 3.2mm	1.3mm/min	ASTM D790	kg/cm ²	20,000
IZOD Impact Strength, 3.2mm (Notched)		ASTM D256		
	23°C		kg-cm/cm	65
	-30°C		kg-cm/cm	50
Rockwell Hardness	R-Scale	ASTM D785	-	
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)		ASTM D648		
	18.6kg		°C	108
	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	
1.6mm			class	HB
2.5mm			class	
3.0mm			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 molded specimens and after 48 hours storage at 23°C, 50% relative humidity.

Updated : Mar-31,2012

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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 (Extrusion Molding)

Processing Parameters		Unit	Value
Drying Temperature		°C	80~100
Drying Time		hrs	4~6
Minimum Moisture Content		%	0.02
Melt Temperature		°C	250~270
Barrel Temperature	Rear	°C	240~270
	Middle	°C	245~275
	Front	°C	245~275
Die Temperature		°C	245~275
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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