



LUPOY GN5001RFT

Injection Molding, PC/ABS

Description

Halogen Free Flame Retardent, Good Flow

Application

E&E (TV, Nevigation Housing)

Properties	Test Condition	Test Method	Unit	Typical Value	
Physical		NIS.			
Specific Gravity	-	ASTM D792	-	1.19	1
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.5 ~ 0.7	
Melt Flow Rate	250℃/2.16 kg	ASTM D1238	g/10min	28	
Mechanical	A Filler	July 1	ant the	ARE TO THE	
Tensile Strength, 3.2mm	11 (4) p. CHI.	ASTM D638	1/4/10	100	
@ Yield	50mm/min		kg/cm ²	580	
Tensile Elongation, 3.2mm	PUP	ASTM D638	BUS		
@ Break	50mm/min		%	20	
Flexural Strength, 3.2mm	10mm/min	ASTM D790	kg/cm ²	970	
Flexural Modulus, 3.2mm	10mm/min	ASTM D790	kg/cm ²	26,000	
IZOD Impact Strength, 3.2mm	10 CO	ASTM D256	William Care		
(Notched)	23 ℃		kg-cm/cm	48	100
Offin Hilly	-30℃	4(4)	kg-cm/cm		4 (gg)
Rockwell Hardness	R-Scale	ASTM D785	_	Agra.	"Ole
Thermal				77.5	2,
Heat Deflection Temperature, 6.4mm		ASTM D648		-	
(Unannealed)	18.6kg		${\mathbb C}$		
	4.6kg		$^{\circ}$	85	
Vicat Softening Temperature	A12.0	ASTM D1525	2/20		
THE COLD	5kg, 50℃/h		\mathbb{C}		
Flammability	M. Halan	UL94	M. The		17 (MIL)
0.7mm		a sight of	class	1/60	Chile
1.2mm		A MILESTE	class	V0	
2.5mm			class	VO	
3.0mm			class	VO	
Relative Temperature Index		UL 746B		-	
Electrical			$^{\circ}$	80	
Mechanical with Impact			${\mathbb C}$	80	
Mechanical without Impact					

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 molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

Updated : Jul-09, 2014

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Electrical

Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts		
Surface Resistivity		IEC 60093	Ohm		O O
Volume Resistivity	23℃	ASTM D257	Ohm∙m		7
Arc Resistance	23 ℃	ASTM D495	Ohm-cm		
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	_	
Dielectric Constant (10 ⁶ Hz)	23 ℃	ASTM D150	sec	A1200	

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Processing Guide (Injection Molding)

Processing Parameters			Unit	Value	
Drying Temperature	War City		°C	75 ~ 85	26
Drying Time	×	hrs			
Maximum Moisture Content		%		0.02	
Melt Temperature		<u> </u>	235 ~ 265		
, pla	Rear	100	$^{\circ}$	220 ~ 240	
Cylinder Temperature	Middle		${\mathbb C}$	235 ~ 255	
	Front		${\mathbb C}$	250 ~ 265	
Nozzle Temperature			°C	250 ~ 265	
Mold Temperature			°C	50 ~ 80	
Back Pressure	12 CD		kg/cm ²		
Screw Speed	William Co.		rpm	40 ~ 70	400
	ACRES 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2003 1 1 1 2 2		

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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