

ASA LI912

Injection Molding

Description

Good Weatherability, General Purpose

Application

Mail Box, Sprinkler, Sash Joiner, Toy,
Satellite Antenna Cover

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.07
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220°C/10kg	ASTM D1238	g/10min	12
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm ²	480
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	>6
@ Break	50mm/min		%	25
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm ²	21,200
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm ²	770
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm ²	22,500
IZOD Impact Strength, 6.4mm (Notched)	23°C	ASTM D256	kg-cm/cm	16
	-30°C		kg-cm/cm	4
IZOD Impact Strength, 3.2mm (Notched)	23°C	ASTM D256	kg-cm/cm	18
	-30°C		kg-cm/cm	4
Rockwell Hardness	R-Scale	ASTM D785	-	103
Thermal				
Heat Deflection Temperature, 6.4mm (Unannealed)	18.6kg	ASTM D648	°C	87
	4.6kg		°C	96
Vicat Softening Temperature	5kg, 50°C/h	ASTM D1525	°C	95
Flammability		UL94		
0.8mm			class	
1.6mm			class	HB
2.5mm			class	
3.2mm			class	HB
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 molulded 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	2 ~ 3	
Minimum Moisture Content	%	0.01	
Melt Temperature	°C	200 ~ 230	
Cylinder Temperature	Rear	°C	180 ~ 200
	Middle	°C	190 ~ 210
	Front	°C	210 ~ 220
Nozzle Temperature	°C	210 ~ 220	
Mold Temperature	°C	40 ~ 80	
Back Pressure	kg/cm ²	5 ~ 10	
Screw Speed	rpm	50 ~ 100	

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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