

# LG ASA LI921NS

LG Chem Ltd. - Acrylonitrile Styrene Acrylate

Friday, May 24, 2019

## General Information

### Product Description

High Weatherability, Antistatic

Application

Sanitary Applications

### General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Features	• Antistatic	• Weather Resistant
Uses	• Sanitary Products	
Processing Method	• Injection Molding	

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity <sup>2</sup>	1.07	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	2190	MPa	ASTM D638
Tensile Strength <sup>3</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	49.0	MPa	
Tensile Elongation <sup>3</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	> 6.0	%	
Tensile Elongation <sup>3</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	25	%	
Flexural Modulus <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	2350	MPa	ASTM D790
Flexural Strength <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	78.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	30	J/m	
-30°C, 6.40 mm, Injection Molded	29	J/m	
23°C, 3.20 mm, Injection Molded	140	J/m	
23°C, 6.40 mm, Injection Molded	120	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	103		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>5</sup>			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	86.0	°C	
Vicat Softening Temperature	95.0	°C	ASTM D1525 <sup>6</sup>

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### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0 to 3.0	hr
Minimum Moisture Content	0.010	%
Rear Temperature	180 to 200	°C
Middle Temperature	190 to 210	°C
Front Temperature	210 to 220	°C
Nozzle Temperature	210 to 220	°C
Processing (Melt) Temp	200 to 230	°C
Mold Temperature	40 to 80	°C
Back Pressure <sup>7</sup>	0.490 to 0.981	MPa
Screw Speed	50 to 100	rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 23°C

<sup>3</sup> 50 mm/min

<sup>4</sup> 15 mm/min

<sup>5</sup> Edgewise

<sup>6</sup> Rate A (50°C/h), Loading 2 (50 N)

<sup>7</sup> Hydraulic Type