

## LG Chemical LI921NS ASA

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

### Material Notes:

Description: High Weatherability, Antistatic Application: Sanitary Applications CAS: 26299-47-8 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LI921NS-ASA.php](http://www.lookpolymers.com/polymer_LG-Chemical-LI921NS-ASA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	12 g/10 min @Load 10.0 kg, Temperature 220 Å°C	12 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength, Yield	47.1 MPa @Thickness 3.20 mm	6830 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	25 % @Thickness 3.20 mm	25 % @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Yield	>= 6.0 % @Thickness 3.20 mm	>= 6.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Tensile Modulus	2.11 GPa @Thickness 3.20 mm	306 ksi @Thickness 0.126 in	1mm/min; ASTM D638
Flexural Yield Strength	76.5 MPa @Thickness 3.20 mm	11100 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	2.30 GPa @Thickness 3.20 mm	334 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.294 J/cm @Thickness 3.20 mm, Temperature -30.0 Å°C	0.551 ft-lb/in @Thickness 0.126 in, Temperature -22.0 Å°F	ASTM D256

Mechanical Properties	0.294 J/cm Metric	0.551 ft-lb/in English	Comments ASTM D256
	@Thickness 6.40 mm, Temperature -30.0 Å°C	@Thickness 0.252 in, Temperature -22.0 Å°F	
	1.18 J/cm	2.20 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Å°C	@Thickness 0.252 in, Temperature 73.4 Å°F	
	1.37 J/cm	2.57 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Å°C @Thickness 6.40 mm	205 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Å°C @Thickness 6.40 mm	190 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	95.0 Å°C @Load 5.00 kg	203 Å°F @Load 11.0 lb	50Å°C/h; ASTM D1525
Flammability, UL94	HB @Thickness >=1.60 mm	HB @Thickness >=0.0630 in	
	HB @Thickness >=3.20 mm	HB @Thickness >=0.126 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 Å°C	356 - 392 Å°F	Injection Molding
Middle Barrel Temperature	190 - 210 Å°C	374 - 410 Å°F	Injection Molding
Front Barrel Temperature	210 - 220 Å°C	410 - 428 Å°F	Injection Molding
Nozzle Temperature	210 - 220 Å°C	410 - 428 Å°F	Injection Molding
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Mold Temperature	40.0 - 80.0 Å°C	104 - 176 Å°F	Injection Molding
Drying Temperature	80.0 - 90.0 Å°C	176 - 194 Å°F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Back Pressure	0.490 - 0.981 MPa	71.1 - 142 psi	Injection Molding

Screw Speed Processing Properties	50 - 100 rpm Metric	50 - 100 rpm English	Injection Molding Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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