

LG ASA LI921NS

Acrylonitrile Styrene Acrylate

LG Chem Ltd.

Message:

Description
High Weatherability, Antistatic
Application
Sanitary Applications

General Information			
Features	Antistatic		
	Good Weather Resistance		
Uses	Sanitary Products		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2110	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	47.1	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield, 3.20 mm	> 6.0	%	
Break, 3.20 mm	25	%	
Flexural Modulus ⁴ (3.20 mm)	226	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 3.20 mm)	74.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	29	J/m	
-30°C, 6.40 mm	29	J/m	
23°C, 3.20 mm	140	J/m	
23°C, 6.40 mm	120	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	96.0	°C	
1.8 MPa, Unannealed, 6.40 mm	86.0	°C	
Vicat Softening Temperature	95.0	°C	ASTM D1525 ⁶

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.60 mm	HB	
3.20 mm	HB	
Injection	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	2.0 to 3.0	hr
Suggested Max Moisture	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	40.0 to 80.0	°C
Back Pressure	0.490 to 0.981	MPa
Screw Speed	50 to 100	rpm
NOTE		
1.	1.0 mm/min	
2.	50 mm/min	
3.	50 mm/min	
4.	15 mm/min	
5.	15 mm/min	
6.	Rate A (50°C/h), Loading 2 (50 N)	

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