

# LG ASA LI-941

## Acrylonitrile Styrene Acrylate

### LG Chem Ltd.

General	
Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America • South America
Features	• High Heat Resistance
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Specific Heat vs. Temperature (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.07	g/cm <sup>3</sup>	ASTM D792
--	1070	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	0.50	g/10 min	
220°C/10.0 kg	6.0	g/10 min	
230°C/3.8 kg	2.0	g/10 min	
Melt volume-flow rate (220°C/10.0 kg)	7.00	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (Saturation)	0.36	%	ISO 62 <sup>2</sup>

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- <sup>3</sup>	2000	MPa	ASTM D638
--	2100	MPa	ISO 527-2 <sup>2</sup>
Tensile Strength			
Yield <sup>4</sup>	46.9	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Elongation			
Yield <sup>4</sup>	6.0	%	ASTM D638
Yield	5.0	%	ISO 527-2 <sup>2</sup>
Break <sup>4</sup>	25	%	ASTM D638
Nominal strain at break	19	%	ISO 527-2 <sup>2</sup>
Flexural Modulus <sup>5</sup>	2300	MPa	ASTM D790
Flexural Strength <sup>5</sup>	75.8	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA <sup>2</sup>
-30°C	2.20	kJ/m <sup>2</sup>	
23°C	14.6	kJ/m <sup>2</sup>	
Charpy impact strength			ISO 179/1eU <sup>2</sup>
-30°C	24.2	kJ/m <sup>2</sup>	
23°C	58.6	kJ/m <sup>2</sup>	
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	214	J/m	
-30°C, 6.35 mm	214	J/m	
23°C, 3.18 mm	167	J/m	
23°C, 6.35 mm	137	J/m	

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由IDES发布, 我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	104	°C	
0.45 MPa, Annealed, 6.35 mm	107	°C	
1.8 MPa, Unannealed, 6.35 mm	97.2	°C	
1.8 MPa, Annealed, 6.35 mm	105	°C	
Glass Transition Temperature <sup>6</sup>	110	°C	ISO 11357-2 <sup>2</sup>
Vicat Softening Temperature			
--	114	°C	ASTM D1525 <sup>7</sup>
50°C/h, B (50N)	97.6	°C	ISO 306 <sup>2</sup>
CLTE			ISO 11359-2 <sup>2</sup>
Flow	0.000075	cm/cm/°C	
Transverse	0.000075	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Electric strength	42	kV/mm	IEC 60243-1 <sup>2</sup>
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
1.59 mm	HB		
3.18 mm	HB		
Burning Behav. at thickness h (3.20 mm, UL)	HB		ISO 1210 <sup>2</sup>
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	190 to 220	°C	
Middle Temperature	210 to 230	°C	
Front Temperature	220 to 240	°C	
Nozzle Temperature	220 to 240	°C	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	80.0 to 100	MPa	
Holding Pressure	70.0 to 90.0	MPa	
Back Pressure	0.500 to 1.00	MPa	
Screw Speed	50 to 100	rpm	

**Notes**

- <sup>1</sup> Typical properties: these are not to be construed as specifications.  
<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.  
<sup>3</sup> 1.0 mm/min  
<sup>4</sup> 50 mm/min  
<sup>5</sup> 15 mm/min  
<sup>6</sup> 10 °C/min  
<sup>7</sup> Rate A (50°C/h), Loading 2 (50 N)

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