

# LG ASA LI-912

## Acrylonitrile Styrene Acrylate

### LG Chem Ltd.

General				
Material Status	• Commercial: Active			
Availability	• Asia Pacific	• North America	• South America	
Features	• General Purpose			
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) (220°C/10.0 kg)		12	g/10 min	ASTM D1238
Melt volume-flow rate (220°C/10.0 kg)		10.0	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		2200	MPa	ISO 527-2 <sup>2</sup>
Tensile Strength				
Yield		46.9	MPa	ASTM D638
Yield		45.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain				
Yield		7.0	%	ISO 527-2 <sup>2</sup>
Break		30	%	ASTM D638
Nominal strain at break		18	%	ISO 527-2 <sup>2</sup>
Flexural Modulus		2250	MPa	ASTM D790
Flexural Strength		71.7	MPa	ASTM D790
Impact		Nominal Value	Unit	Test Method
Charpy notched impact strength				ISO 179/1eA <sup>2</sup>
-30°C		1.70	kJ/m <sup>2</sup>	
23°C		15.8	kJ/m <sup>2</sup>	
Charpy impact strength				ISO 179/1eU <sup>2</sup>
-30°C		35.5	kJ/m <sup>2</sup>	
23°C		No Break		
Notched Izod Impact				ASTM D256
23°C, 3.18 mm		224	J/m	
23°C, 6.35 mm		165	J/m	
Hardness		Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)		106		ASTM D785
Thermal		Nominal Value	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
1.8 MPa, Unannealed		92.2	°C	
Glass Transition Temperature <sup>3</sup>		110	°C	ISO 11357-2 <sup>2</sup>
Vicat Softening Temperature				
--		106	°C	ASTM D1525
50°C/h, B (50N)		95.9	°C	ISO 306 <sup>2</sup>
CLTE				ISO 11359-2 <sup>2</sup>
Flow		0.000080	cm/cm/°C	
Transverse		0.000080	cm/cm/°C	

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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Electrical	Nominal Value	Unit	Test Method
Relative Permittivity (1 MHz)	3.20		IEC 60250 <sup>2</sup>
Dissipation Factor (1 MHz)	0.033		IEC 60250 <sup>2</sup>
Comparative tracking index	600		IEC 60112 <sup>2</sup>
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>
Additional Information			
Melt Flow Rate, ASTM D1238, 200°C/5kg: 1.2 g/10min			
Melt Flow Rate, ASTM D1238, 230°C/3.8kg: 4.3 g/10min			

**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> 10 °C/min

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