

LG ASA LI-921

Acrylonitrile Styrene Acrylate

LG Chem Ltd.

Product Description			
General injection ASA from LG chemical reinforced with acrylic rubber, is featured with weather resistance of acrylic rubber, processability of styrene, and chemical resistance, heat resistance, and glossiness of acrylonitrile.			
General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• North America • South America	
Features	• Good Chemical Resistance • Good Weather Resistance	• High Strength • Medium Gloss	• Medium Heat Resistance
Uses	• Electrical/Electronic Applications	• Furniture	
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	0.90	g/10 min	
220°C/10.0 kg	9.0	g/10 min	
230°C/3.8 kg	3.5	g/10 min	
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	49.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus ³	2450	MPa	ASTM D790
Flexural Strength ³ (Yield)	81.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
3.18 mm	147	J/m	
6.35 mm	127	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 12.7 mm	93.0	°C	ASTM D648
Vicat Softening Temperature	107	°C	ASTM D1525 ⁴
Electrical	Nominal Value	Unit	Test Method
Arc Resistance (PLC)	PLC 6		ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL			UL 94
1.59 mm	HB		
3.18 mm	HB		
UL 746	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI) (PLC)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR) (PLC)			UL 746
--	PLC 1		
Hot-wire Ignition (HWI) (PLC)	PLC 3		UL 746
High Amp Arc Ignition (HAI) (PLC)	PLC 0		UL 746
Injection	Nominal Value	Unit	Test Method
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 3.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 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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Injection	Nominal Value	Unit
Front Temperature	210 to 220	°C
Nozzle Temperature	210 to 220	°C
Processing (Melt) Temp	230 to 250	°C
Mold Temperature	40.0 to 80.0	°C
Injection Pressure	80.0 to 100	MPa
Holding Pressure	70.0 to 80.0	MPa
Back Pressure	0.500 to 1.00	MPa
Screw Speed	50 to 100	rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

² 50 mm/min

³ 15 mm/min

⁴ Loading 1 (10 N)

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