

LG ASA LI933

LG Chem Ltd. - Acrylonitrile Styrene Acrylate

Friday, May 24, 2019

General Information

Product Description

Description

- Good Weatherability, Low Gloss

Application

- Canopy, Siding, Fence, (Roofing) Tiles

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Low Gloss	• Weather Resistant	
Uses	• Fencing & Decking	• Outdoor Applications	• Siding Applications
Processing Method	• Coextrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	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 (23°C, 3.20 mm, Injection Molded)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ³ (23°C, 3.20 mm, Injection Molded)	1730	MPa	ASTM D638
Tensile Strength ³			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	41.0	MPa	
Tensile Elongation ³			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	> 6.0	%	
Tensile Elongation ³			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 25	%	
Flexural Modulus ⁴ (23°C, 3.20 mm, Injection Molded)	2000	MPa	ASTM D790
Flexural Strength ⁴ (23°C, 3.20 mm, Injection Molded)	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	40	J/m	
-30°C, 6.40 mm, Injection Molded	40	J/m	
23°C, 3.20 mm, Injection Molded	180	J/m	
23°C, 6.40 mm, Injection Molded	130	J/m	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	84.0	°C	
Vicat Softening Temperature	92.0	°C	ASTM D1525 ⁵

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

LG ASA LI933

LG Chem Ltd. - Acrylonitrile Styrene Acrylate

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	2.0 to 3.0	hr
Cylinder Zone 1 Temp.	190 to 200	°C
Cylinder Zone 2 Temp.	200 to 220	°C
Cylinder Zone 3 Temp.	210 to 230	°C
Cylinder Zone 4 Temp.	210 to 230	°C
Adapter Temperature	210 to 230	°C
Melt Temperature	200 to 230	°C
Die Temperature	210 to 250	°C

Extrusion Notes

Minimum Moisture Content: 0.01%

Roll Stack Temperature, Top: 70 to 90°C

Roll Stack Temperature, Middle: 70 to 90°C

Roll Stack Temperature, Bottom: 70 to 100°C

Notes

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

² 23°C

³ 50 mm/min

⁴ 15 mm/min

⁵ Rate A (50°C/h), Loading 2 (50 N)