

## LG Chemical LI933 Co-Extrusion ASA

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

### Material Notes:

Description: Good Weatherability, Low Gloss  
Application: Canopy, Siding, Fence, (Roofing) Tiles  
CAS: 26299-47-8  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LI933-Co-Extrusion-ASA.php](http://www.lookpolymers.com/polymer_LG-Chemical-LI933-Co-Extrusion-ASA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Extrusion Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	12 g/10 min @Load 10.0 kg, Temperature 220 Å°C	12 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	39.2 MPa @Thickness 3.20 mm	5690 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	25 % @Thickness 3.20 mm	25 % @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Yield	>= 6.0 % @Thickness 3.20 mm	>= 6.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Tensile Modulus	1.67 GPa @Thickness 3.20 mm	242 ksi @Thickness 0.126 in	1mm/min; ASTM D638
Flexural Yield Strength	64.7 MPa @Thickness 3.20 mm	9390 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	2.01 GPa @Thickness 3.20 mm	292 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.392 J/cm @Thickness 3.20 mm,	0.735 ft-lb/in @Thickness 0.126 in,	ASTM D256

Mechanical Properties	Temperature -30.0 Å°C Metric	Temperature -22.0 Å°F English	Comments
	0.392 J/cm	0.735 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature -30.0 Å°C	@Thickness 0.252 in, Temperature -22.0 Å°F	
	1.37 J/cm	2.57 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature 23.0 Å°C	@Thickness 0.252 in, Temperature 73.4 Å°F	
	1.77 J/cm	3.31 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.0 Å°C	199 Å°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Å°C	183 Å°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	92.0 Å°C	198 Å°F	50Å°C/h; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	HB	HB	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	HB	HB	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	

Processing Properties	Metric	English	Comments
Zone 1	190 - 200 Å°C	374 - 392 Å°F	Extrusion Molding
Zone 2	200 - 220 Å°C	392 - 428 Å°F	Extrusion Molding
Zone 3	210 - 230 Å°C	410 - 446 Å°F	Extrusion Molding
Zone 4	210 - 230 Å°C	410 - 446 Å°F	Extrusion Molding
Adapter Temperature	210 - 230 Å°C	410 - 446 Å°F	Extrusion Molding
Die Temperature	210 - 250 Å°C	410 - 482 Å°F	Extrusion Molding
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	Extrusion Molding
Roll Temperature	70.0 - 90.0 Å°C	158 - 194 Å°F	Top

Processing Properties	70.0 - 90.0 Å°C Metric	158 - 194 Å°F English	Middle Comments
	70.0 - 100 Å°C	158 - 212 Å°F	Bottom
Drying Temperature	80.0 - 90.0 Å°C	176 - 194 Å°F	Extrusion Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Extrusion Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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