

LG Chemical LI931 Extrusion ASA

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

Material Notes:

Description: Low Gloss, Extrusion Application: Industrial Materials (Window Profile, Tile Etc)CAS: 26299-47-8 & 9003-54-7Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LI931-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	7.5 g/10 min @Load 10.0 kg, Temperature 220 Â°C	7.5 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength, Yield	29.4 MPa @Thickness 3.20 mm	4270 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	40 % @Thickness 3.20 mm	40 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	49.0 MPa @Thickness 3.20 mm	7110 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	1.57 GPa @Thickness 3.20 mm	228 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.392 J/cm @Thickness 6.40 mm, Temperature -30.0 Â°C	0.735 ft-lb/in @Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256
	0.490 J/cm @Thickness 3.20 mm, Temperature -30.0 Â°C	0.918 ft-lb/in @Thickness 0.126 in, Temperature -22.0 Â°F	ASTM D256
	0.785 J/cm	1.47 ft-lb/in	

Mechanical Properties	Metric	English	ASTM D256 Comments
	@ Thickness 6.40 mm, Temperature 23.0 Â°C	@ Thickness 0.252 in, Temperature 73.4 Â°F	
	0.981 J/cm	1.84 ft-lb/in	
	@ Thickness 3.20 mm, Temperature 23.0 Â°C	@ Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 Â°C @ Thickness 6.40 mm	185 Â°F @ Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Â°C @ Thickness 6.40 mm	174 Â°F @ Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	86.0 Â°C @ Load 5.00 kg	187 Â°F @ Load 11.0 lb	50Â°C/h; ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	30 %	30 %	45Â°; ASTM D2457

Processing Properties	Metric	English	Comments
Zone 1	180 - 210 Â°C	356 - 410 Â°F	Extrusion Molding
Zone 2	190 - 230 Â°C	374 - 446 Â°F	Extrusion Molding
Zone 3	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Zone 4	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Adapter Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Die Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Melt Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Roll Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Bottom
	70.0 - 90.0 Â°C	158 - 194 Â°F	Middle
	70.0 - 100 Â°C	158 - 212 Â°F	Top
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Extrusion Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Extrusion Molding

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