

LG Chemical LI912 ASA

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

Material Notes:

Description: Good Weatherability, General Purpose
Application: Mail Box, Sprinkler, Sash Joiner, Toy, Satellite Antenna Cover
CAS: 26299-47-8
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LI912-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	Injection 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 °C	12 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength, Yield	47.1 MPa @Thickness 3.20 mm	6830 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	2.08 GPa @Thickness 3.20 mm	302 ksi @Thickness 0.126 in	1mm/min; ASTM D638
Flexural Yield Strength	75.5 MPa @Thickness 3.20 mm	11000 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	2.21 GPa @Thickness 3.20 mm	320 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 °C Metric	Temperature -22.0 °F English	Comments
	0.392 J/cm	0.735 ft-lb/in	
	@Thickness 6.40 mm, Temperature -30.0 °C	@Thickness 0.252 in, Temperature -22.0 °F	ASTM D256
	1.57 J/cm	2.94 ft-lb/in	
	@Thickness 6.40 mm, Temperature 23.0 °C	@Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	1.77 J/cm	3.31 ft-lb/in	
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	
	@Thickness 6.40 mm	@Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	
	@Thickness 6.40 mm	@Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	95.0 °C	203 °F	
	@Load 5.00 kg	@Load 11.0 lb	50°C/h; ASTM D1525
UL RTI, Electrical	50.0 °C	122 °F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 °C	122 °F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	50.0 °C	122 °F	
	@Thickness >=6.00 mm	@Thickness >=0.236 in	
UL RTI, Mechanical with Impact	50.0 °C	122 °F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 °C	122 °F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	50.0 °C	122 °F	
	@Thickness >=6.00 mm	@Thickness >=0.236 in	
UL RTI, Mechanical without Impact	50.0 °C	122 °F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	

Thermal Properties	Metric	English	Comments
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	50.0 °C	122 °F	
	@Thickness >=6.00 mm	@Thickness >=0.236 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	HB	HB	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	
	HB	HB	
	@Thickness >=6.00 mm	@Thickness >=0.236 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Strength	27.0 kV/mm	686 kV/in	
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=6.00 mm	@Thickness >=0.236 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 °C	356 - 392 °F	Injection Molding

Middle Barrel Temperature Processing Properties	190 - 210 °C Metric	374 - 410 °F English	Injection Molding Comments
Front Barrel Temperature	210 - 220 °C	410 - 428 °F	Injection Molding
Nozzle Temperature	210 - 220 °C	410 - 428 °F	Injection Molding
Melt Temperature	200 - 230 °C	392 - 446 °F	Injection Molding
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	Injection Molding
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Back Pressure	0.490 - 0.981 MPa	71.1 - 142 psi	Injection Molding
Screw Speed	50 - 100 rpm	50 - 100 rpm	Injection Molding

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