

LG Chemical LI970HF Co-Extrusion ASA

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

Material Notes:

Description: Good Weatherability, Scratch Resistance, High Flow Application: Window Profile, Siding, Rain Gutter CAS: 26299-47-

Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LI970HF-Co-Extrusion-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 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	42 g/10 min @Load 10.0 kg, Temperature 220 Â°C	42 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D785
Tensile Strength, Yield	51.0 MPa @Thickness 3.20 mm	7400 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @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	2.20 GPa @Thickness 3.20 mm	319 ksi @Thickness 0.126 in	1mm/min; ASTM D638
Flexural Yield Strength	80.4 MPa @Thickness 3.20 mm	11700 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	2.35 GPa @Thickness 3.20 mm	341 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.196 J/cm @Thickness 3.20 mm,	0.367 ft-lb/in @Thickness 0.126 in,	ASTM D256

Mechanical Properties	Temperature -30.0 Â°C Metric	Temperature -22.0 Â°F English	Comments
	0.196 J/cm	0.367 ft-lb/in	
	@Thickness 6.40 mm, Temperature -30.0 Â°C	@Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256
	0.588 J/cm	1.10 ft-lb/in	
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
	0.588 J/cm	1.10 ft-lb/in	
	@Thickness 6.40 mm, Temperature 23.0 Â°C	@Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Â°C	203 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	
	@Thickness 6.40 mm	@Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	93.0 Â°C	199 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	50Â°C/h; ASTM D1525
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 Â°C	374 - 392 Â°F	Extrusion Molding
Zone 2	200 - 220 Â°C	392 - 428 Â°F	Extrusion Molding
Zone 3	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Zone 4	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Adapter Temperature	210 - 230 Â°C	410 - 446 Â°F	Extrusion Molding
Die Temperature	210 - 250 Â°C	410 - 482 Â°F	Extrusion Molding
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Extrusion Molding
Roll Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	Top

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

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