

# ASA LI970HF

Co-Extrusion

## Description

Good Weatherability, Scratch Resistance, High Flow

## Application

Window Profile, Siding, Rain Gutter

Properties	Test Condition	Test Method	Unit	Typical Value
<b>Physical</b>				
Specific Gravity		ASTM D792	-	1.12
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.4~0.7
Melt Flow Rate	220°C/10kg	ASTM D1238	g/10min	30
<b>Mechanical</b>				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	50mm/min		kg/cm <sup>2</sup>	510
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	50mm/min		%	>6
@ Break	50mm/min		%	20
Tensile Modulus, 3.2mm	1mm/min	ASTM D638	kg/cm <sup>2</sup>	22,400
Flexural Strength, 3.2mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	780
Flexural Modulus, 3.2mm	15mm/min	ASTM D790	kg/cm <sup>2</sup>	23,000
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 °C		kg-cm/cm	6
	-30 °C		kg-cm/cm	2
IZOD Impact Strength, 3.2mm		ASTM D256		
(Notched)	23 °C		kg-cm/cm	6
	-30 °C		kg-cm/cm	2
Rockwell Hardness	R-Scale	ASTM D785	-	108
<b>Thermal</b>				
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	18.6kg		°C	85
	4.6kg		°C	95
Vicat Softening Temperature		ASTM D1525		
	5kg, 50 °C/h		°C	93
Flammability		UL94		
0.8mm			class	
1.6mm			class	HB
2.5mm			class	
3.2mm			class	HB
Relative Temperature Index		UL 746B		
Electrical			°C	
Mechanical with Impact			°C	
Mechanical without Impact			°C	

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection moulded specimens and after 48 hours storage at 23 °C, 50% relative humidity.

Updated : 29-Jul-14

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products.

# ASA LI970HF

Co-Extrusion

## Description

Good Weatherability, Scratch Resistance, High Flow

## Application

Window Profile, Siding, Rain Gutter

### Processing Guide (Extrusion Molding)

Processing Parameters	Unit	Value	
Drying Temperature	℃	80 ~ 90	
Drying Time	hrs	2 ~ 3	
Minimum Moisture Content	%	0.01	
Melt Temperature	℃	200 ~ 230	
Barrel Temperature	Zone 1	℃	190 ~ 200
	Zone 2	℃	200 ~ 220
	Zone 3	℃	210 ~ 230
	Zone 4	℃	210 ~ 230
Adapter Temperature	℃	210 ~ 230	
Die Temperature	℃	210 ~ 250	
Roll Stack Temperature	Top	℃	70 ~ 90
	Middle	℃	70 ~ 90
	Bottom	℃	70 ~ 100

Note) Recommend initial lower temperatures settings to avoid material degradation/hang-up in die & purge material from extruder prior to shutdown.

Updated : 29-Jul-14

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products.