

# LG SAN 80HFICELLHK

Styrene Acrylonitrile

LG Chem Ltd.

Message:

Description  
High Transparency, Heat Resistance, Chemical Resistance  
Application  
Refrigerator Sleeves, Miscellaneous

General Information			
Features	Good Chemical Resistance		
	High Clarity		
	Medium Heat Resistance		
Uses	Appliance Components		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/10.0 kg	29	g/10 min	
200°C/3.8 kg	10	g/10 min	
200°C/5.0 kg	3.0	g/10 min	
Molding Shrinkage - Flow (3.20 mm, Injection Molded)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (23°C, 3.20 mm, Injection Molded)	3110	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield, 23°C, 3.20 mm, Injection Molded)	73.5	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, 23°C, 3.20 mm, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus <sup>4</sup> (23°C, 3.20 mm, Injection Molded)	3680	MPa	ASTM D790
Flexural Strength <sup>5</sup> (Yield, 23°C, 3.20 mm, Injection Molded)	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm, Injection Molded	9.8	J/m	
23°C, 6.40 mm, Injection Molded	9.8	J/m	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed, 6.40 mm Span)	90.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°C	ASTM D1525 <sup>6</sup>
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.010	%	
Rear Temperature	170 to 190	°C	
Middle Temperature	180 to 200	°C	
Front Temperature	190 to 210	°C	
Nozzle Temperature	190 to 220	°C	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	40.0 to 70.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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