LG SAN 80HF

LG Chem Ltd. - Styrene Acrylonitrile

Saturday, July 20, 2019

General Information

Product Description

Description

High Transparency, Heat Resistance, Chemical Resistance

Application

Refrigerator Sleeves, Miscellaneous

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• Mold Release		
Features	• Chemical Resistant	• High Clarity	• High Heat Resistance
Uses	• Electrical/Electronic Applications	• Kitchenware	
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	3.0	g/10 min	
220°C/10.0 kg	29	g/10 min	
230°C/3.8 kg	10	g/10 min	
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.60	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2] (3.20 mm)	3110	MPa	ASTM D638
Tensile Strength [3] (Yield, 3.20 mm)	73.5	MPa	ASTM D638
Tensile Elongation [3] (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus [4] (3.20 mm)	3630	MPa	ASTM D790
Flexural Strength [4] (3.20 mm)	122	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 6.40 mm)	9.8	J/m	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	123		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm	92.0	°C	
Vicat Softening Temperature	100	°C	ASTM D1525 [5]
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.6 mm	HB		
3.2 mm	HB		

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	2.0 to 4.0	hr
Minimum Moisture Content	0.0100	ppg
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 to 70	°C
Back Pressure	29.4 to 58.8	MPa
Screw Speed	30 to 60	rpm

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 1.0 mm/min

[3] 50 mm/min

[4] 15 mm/min

[5] Rate B (120°C/h), Loading 2 (50 N)