

General Information
Product Description

Description

High Transparency, Heat Resistance, Chemical Resistance

Application

Refrigerator Sleeves, Miscellaneous

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Asia Pacific • Europe • Latin America • North America
Features	<ul style="list-style-type: none"> • Chemical Resistant • High Clarity • Medium Heat Resistance
Uses	• Appliance Components
Appearance	• Clear/Transparent
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/10.0 kg	25	g/10 min	
200°C/3.8 kg	9.0	g/10 min	
200°C/5.0 kg	2.5	g/10 min	
Molding Shrinkage - Flow (3.20 mm, Injection Molded)	0.20 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	72.6	MPa	
Tensile Elongation ²			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	6.0	%	
Flexural Modulus ³ (23°C, 3.20 mm, Injection Molded)	3680	MPa	ASTM D790
Flexural Strength ³			ASTM D790
Yield, 23°C, 3.20 mm, Injection Molded	121	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm, Injection Molded)	9.8	J/m	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C, Injection Molded)	123		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed, 6.40 mm Span	90.0	°C	
Vicat Softening Temperature	100	°C	ASTM D1525 ⁴
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm		HB	
3.0 mm		HB	

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LG SAN 80HFICELLHK

LG Chem Ltd. - Styrene Acrylonitrile

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80	°C
Drying Time	2.0 to 4.0	hr
Minimum Moisture Content	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 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 50 mm/min

³ 15 mm/min

⁴ Rate A (50°C/h), Loading 2 (50 N)