

LG ABS RS657L

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Description
Chemical Resistnace to Cyclopentane, Low Specific Gravity
Application
Refrigerator Inner Liner

General Information			
Features	Low density		
	Good chemical resistance		
Uses	Electrical appliances		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	101		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	46.1	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20mm	> 5.0	%	ASTM D638
Fracture, 3.20mm	35	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2400	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 3.20 mm)	74.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	170	J/m	ASTM D256
-30°C, 6.40 mm	160	J/m	ASTM D256
23°C, 3.20 mm	460	J/m	ASTM D256
23°C, 6.40 mm	390	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm ⁵	94.0	°C	ASTM D648
0.45 MPa, unannealed, 6.40mm ⁶	89.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°C	ASTM D1525 ⁷
Flammability	Nominal Value		Test Method

Flame Rating	HB	UL 94
Extrusion	Nominal Value	Unit
Drying Temperature	70.0 - 80.0	°C
Drying Time	3.0 - 4.0	hr
Suggested Max Moisture	< 0.010	%
Cylinder Zone 1 Temp.	180 - 210	°C
Cylinder Zone 2 Temp.	190 - 230	°C
Cylinder Zone 3 Temp.	200 - 250	°C
Cylinder Zone 4 Temp.	200 - 250	°C
Adapter Temperature	200 - 250	°C
Melt Temperature	200 - 250	°C
Die Temperature	200 - 250	°C
Extrusion instructions		
Top RollStack Temperature: 70 to 100°C Middle RollStack Temperature: 70 to 90°C Bottom RollStack Temperature: 60 to 90°C		
NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	15 mm/min	
4.	15 mm/min	
5.	4.6kg	
6.	18.6kg	
7.	速率 A (50°C/h), 载荷2 (50N)	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

