

LG ABS RS670

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

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

General Information			
UL YellowCard	E67171-101659975		
Features	Low Specific Gravity		
	Good chemical resistance		
Uses	Home appliance components		
RoHS Compliance	RoHS compliance		
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)	4.5	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)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	49.0	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)	2500	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	77.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	120	J/m	ASTM D256
-30°C, 6.40 mm	110	J/m	ASTM D256
23°C, 3.20 mm	310	J/m	ASTM D256
23°C, 6.40 mm	290	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	94.0	°C	ASTM D648
0.45 MPa, annealed, 6.40mm	96.0	°C	ASTM D648

1.8 MPa, unannealed, 6.40mm	89.0	°C	ASTM D648
1.8 MPa, annealed, 6.40mm	90.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°C	ASTM D1525 ⁵
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.5 mm	HB		UL 94
3.0 mm	HB		UL 94
Extrusion	Nominal Value	Unit	
Drying Temperature	70 - 80	°C	
Drying Time	3.0 - 4.0	hr	
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			
Minimum Moisture Content: 0.01%Roll Stack Temperature, Top: 70 to 100°CRoll Stack Temperature, Middle: 70 to 90°CRoll Stack Temperature, Bottom: 60 to 90°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	15 mm/min		
5.	速率 A (50°C/h), 载荷2 (50N)		

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