

LG Chemical RS657L ABS, Chemical Resistance to Cyclopentane, Low Specific Gravity

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Feature: Extrusion Molding, Chemical Resistance to Cyclopentane, Thin Thickness
 Application: Refrigerator Inner Liner
 CAS No. 9003-56-9
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-RS657L-ABS-Chemical-Resistance-to-Cyclopentane-Low-Specific-Gravity.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Extrusion Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	4.0 g/10 min @Load 10.0 kg, Temperature 220 Å°C	4.0 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ASTM D785
Tensile Strength, Yield	46.1 MPa @Thickness 3.20 mm	6680 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	35 % @Thickness 3.20 mm	35 % @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Yield	>= 5.0 % @Thickness 3.20 mm	>= 5.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	74.5 MPa @Thickness 3.20 mm	10800 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.40 GPa @Thickness 3.20 mm	348 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	3.92 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	7.35 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256
	4.61 J/cm	8.63 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
Izod Impact, Unnotched	1.57 J/cm	2.94 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature -20.0 Â°C	@Thickness 0.252 in, Temperature -4.00 Â°F	
	1.67 J/cm	3.12 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -20.0 Â°C	@Thickness 0.126 in, Temperature -4.00 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Â°C	201 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	89.0 Â°C	192 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	96.0 Â°C	205 Â°F	50Â°C/h; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
UL RTI, Electrical	60.0 Â°C	140 Â°F	UL 746B
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	UL 746B
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	UL 746B
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	UL 746B
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Â°C	140 Â°F	UL 746B
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	UL 746B
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	

Thermal Properties	Metric @ Thickness >=3.00 mm	English @ Thickness >=0.118 in	Comments
Processing Properties	Metric	English	Comments
Zone 1	180 - 210 Â°C	356 - 410 Â°F	Extrusion Molding
Zone 2	190 - 230 Â°C	374 - 446 Â°F	Extrusion Molding
Zone 3	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Zone 4	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Adapter Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Die Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Melt Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Roll Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Bottom, Extrusion
	70.0 - 90.0 Â°C	158 - 194 Â°F	Middle, Extrusion
	70.0 - 100 Â°C	158 - 212 Â°F	Top, Extrusion
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Extrusion Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Extrusion Molding

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