

LG Chemical RS800M ABS, High Modulus, Chemical Resistance to HCFC

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

Material Notes:

Feature: Extrusion Molding, High Modulus, Chemical Resistance to HCFC 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-RS800M-ABS-High-Modulus-Chemical-Resistance-to-HCFC.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	6.0 g/10 min @Load 10.0 kg, Temperature 220 Å°C	6.0 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	44.1 MPa @Thickness 3.20 mm	6400 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	72.6 MPa @Thickness 3.20 mm	10500 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	3.43 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	6.43 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256
	3.92 J/cm	7.35 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 3.20 mm, Temperature 23.0 Â°C	English @Thickness 0.126 in, Temperature 73.4 Â°F	Comments
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Thermal Properties	Metric	English	Comments
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Deflection Temperature at 0.46 MPa (66 psi)	96.0 Â°C @Thickness 6.40 mm	205 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
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Deflection Temperature at 1.8 MPa (264 psi)	89.0 Â°C @Thickness 6.40 mm	192 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
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Vicat Softening Point	96.0 Â°C @Load 5.00 kg	205 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525
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UL RTI, Electrical	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	UL 746B
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	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	UL 746B
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UL RTI, Mechanical with Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	UL 746B
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	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	UL 746B
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UL RTI, Mechanical without Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	UL 746B
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	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	UL 746B
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Flammability, UL94	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	
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	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	
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Electrical Properties	Metric	English	Comments
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Hot Wire Ignition, HWI	15 - 30 sec @Thickness >=1.50 mm	15 - 30 sec @Thickness >=0.0591 in	
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Electrical Properties	30 - 60 sec Metric	30 - 60 sec English	Comments
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min	0.394 - 1.00 in/min	

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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