

## LG Chemical RS657 ABS, Chemical Resistance to Cyclopentane

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-RS657-ABS-Chemical-Resistance-to-Cyclopentane.php](http://www.lookpolymers.com/polymer_LG-Chemical-RS657-ABS-Chemical-Resistance-to-Cyclopentane.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	5.0 g/10 min @Load 10.0 kg, Temperature 220 Å°C	5.0 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength, Yield	48.1 MPa @Thickness 3.20 mm	6970 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	80.4 MPa @Thickness 3.20 mm	11700 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.59 GPa @Thickness 3.20 mm	375 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.75 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	5.14 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256
	3.53 J/cm	6.61 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 3.20 mm, Temperature 23.0 Å°C	English @Thickness 0.126 in, Temperature 73.4 Å°F	Comments
Izod Impact, Unnotched	1.08 J/cm	2.02 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature -20.0 Å°C	@Thickness 0.252 in, Temperature -4.00 Å°F	
	1.18 J/cm	2.20 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -20.0 Å°C	@Thickness 0.126 in, Temperature -4.00 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Å°C	205 Å°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	96.0 Å°C	205 Å°F	50Å°C/h; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	

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

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