

LG Chemical RS650 ABS

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

Material Notes:

Feature: Extrusion Molding, General Purpose Application: Miscellaneous CAS No. 9003-56-9 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-RS650-ABS.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	6.5 g/10 min @Load 10.0 kg, Temperature 220 Â°C	6.5 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength, Yield	49.0 MPa @Thickness 3.20 mm	7110 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	2.55 GPa @Thickness 3.20 mm	370 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.94 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	5.51 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	3.24 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	6.06 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Â°C @Thickness 6.40 mm	203 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Â°C @Thickness 6.40 mm	189 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	95.0 Â°C @Load 5.00 kg	203 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525
UL RTI, Electrical	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness >=1.50 mm	140 Â°F @Thickness >=0.0591 in	
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
Flammability, UL94	HB @Thickness >=1.50 mm	HB @Thickness >=0.0591 in	
	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Strength	37.0 kV/mm	940 kV/in	
Arc Resistance	60 - 120 sec	60 - 120 sec	
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	

Electrical Properties	Metric @Thickness >=1.50 mm	English @Thickness >=0.0591 in	Comments
	7.0 - 15 sec	7.0 - 15 sec	
	@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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