

LG Chemical LG703W ABS, Low Gloss, Heat Resistance

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Feature: Injection Molding, Low Gloss, Heat Resistance
 Application: Automobiles Interior Housing (Column Cover, Filllar Etc)
 CAS No. 25120-20-1, 9003-56-9, 25747-74-7 and 9003-54-7
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LG703W-ABS-Low-Gloss-Heat-Resistance.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	Injection 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	9.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	9.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength, Yield	45.1 MPa @Thickness 3.20 mm	6540 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	25 % @Thickness 3.20 mm	25 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	73.5 MPa @Thickness 3.20 mm	10700 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	1.96 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	3.67 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	2.45 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	4.59 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
	0.883 J/cm	1.65 ft-lb/in	

Impact Properties	Metric	English	Comments
Impact Properties	@ Thickness 6.40 mm, Temperature -30.0 Â°C	@ Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256
	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@ Thickness 3.20 mm, Temperature -30.0 Â°C	@ Thickness 0.126 in, Temperature -22.0 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	101 Â°C @ Thickness 6.40 mm	214 Â°F @ Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C @ Thickness 6.40 mm	198 Â°F @ Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	99.0 Â°C @ Load 5.00 kg	210 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	UL 746B
UL RTI, Mechanical with Impact	60.0 Â°C @ Thickness >=1.50 mm	140 Â°F @ Thickness >=0.0591 in	UL 746B
UL RTI, Mechanical without Impact	60.0 Â°C @ Thickness >=1.50 mm	140 Â°F @ Thickness >=0.0591 in	UL 746B
Flammability, UL94	HB @ Thickness >=1.50 mm	HB @ Thickness >=0.0591 in	

Optical Properties	Metric	English	Comments
Gloss	30 %	30 %	45Â°; ASTM D2457

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Middle Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Front Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Nozzle Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Melt Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding

Processing Properties	Metric	English	Comments
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	68.6 - 88.3 MPa	9950 - 12800 psi	Injection Molding
Screw Speed	<= 80 rpm	<= 80 rpm	Injection Molding

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