

## LG Chemical LG749W 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: Automotive Interior Housing (Glove Cover, Door S/W Housing Etc)  
 CAS No. 25120-20-1, 9003-56-9 and 25747-74-7  
 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LG749W-ABS-Low-Gloss-Heat-Resistance.php](http://www.lookpolymers.com/polymer_LG-Chemical-LG749W-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	6.5 g/10 min @Load 10.0 kg, Temperature 220 Å°C	6.5 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	46.1 MPa @Thickness 3.20 mm	6680 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @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	2.35 GPa @Thickness 3.20 mm	341 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.35 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	4.41 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256
	2.65 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	4.96 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256
	1.18 J/cm	2.20 ft-lb/in	

Impact Properties	Metric	English	Comments
1000 Impact Unnotched	@Thickness 6.40 mm, Temperature -30.0 Å°C	@Thickness 0.252 in, Temperature -22.0 Å°F	ASTM D256
Mechanical Properties	1.27 J/cm	2.39 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -30.0 Å°C	@Thickness 0.126 in, Temperature -22.0 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	103 Å°C @Thickness 6.40 mm	217 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Å°C @Thickness 6.40 mm	203 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	101 Å°C @Load 5.00 kg	214 Å°F @Load 11.0 lb	50Å°C/h; ASTM D1525

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 220 Å°C	392 - 428 Å°F	Injection Molding
Middle Barrel Temperature	210 - 230 Å°C	410 - 446 Å°F	Injection Molding
Front Barrel Temperature	220 - 240 Å°C	428 - 464 Å°F	Injection Molding
Nozzle Temperature	220 - 240 Å°C	428 - 464 Å°F	Injection Molding
Melt Temperature	220 - 240 Å°C	428 - 464 Å°F	Injection Molding
Mold Temperature	40.0 - 60.0 Å°C	104 - 140 Å°F	Injection Molding
Drying Temperature	70.0 - 80.0 Å°C	158 - 176 Å°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

## Contact Songhan Plastic Technology Co.,Ltd.

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