

LG Chemical MA201 ABS, Low Gloss

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

Material Notes:

Feature: Injection Molding, Extrusion Molding, General Purpose, Low Gloss
 Application: Automotive Sheet, Semi-Conductor Tray
 CAS No. 9003-56-9
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-MA201-ABS-Low-Gloss.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.19 % @Temperature 23.0 °C, Time 86400 sec	0.19 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.010	0.010	Injection and 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	7.0 g/10 min @Load 10.0 kg, Temperature 220 °C	7.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	51.0 MPa @Thickness 3.20 mm	7400 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	>= 30 % @Thickness 3.20 mm	>= 30 % @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	2.55 GPa @Thickness 3.20 mm	370 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.55 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	4.78 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	3.92 J/cm	7.35 ft-lb/in	

Mechanical Properties	Metric	English	ASTM D256 Comments
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
Izod Impact, Unnotched	1.08 J/cm	2.02 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature -20.0 °C	@Thickness 0.252 in, Temperature -4.00 °F	
	1.86 J/cm	3.49 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -20.0 °C	@Thickness 0.126 in, Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	100 °C	212 °F	50°C/h; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	HB	HB	
	@Thickness >=0.800 mm	@Thickness >=0.0315 in	
	HB	HB	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	HB	HB	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	HB	HB	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 °C	356 - 392 °F	Injection Molding
Middle Barrel Temperature	190 - 210 °C	374 - 410 °F	Injection Molding
Front Barrel Temperature	200 - 220 °C	392 - 428 °F	Injection Molding
Nozzle Temperature	200 - 230 °C	392 - 446 °F	Injection Molding
Zone 1	180 - 200 °C	356 - 392 °F	Extrusion Molding
Zone 2	190 - 210 °C	374 - 410 °F	Extrusion Molding
Zone 3	200 - 230 °C	392 - 446 °F	Extrusion Molding

Zone 4 Processing Properties	200 - 230 °C Metric	392 - 446 °F English	Extrusion Molding Comments
Adapter Temperature	200 - 230 °C	392 - 446 °F	Extrusion Molding
Die Temperature	200 - 230 °C	392 - 446 °F	Extrusion Molding
Melt Temperature	200 - 230 °C	392 - 446 °F	Injection and Extrusion Molding
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	Injection Molding
Roll Temperature	60.0 - 90.0 °C	140 - 194 °F	Bottom, Extrusion
	70.0 - 90.0 °C	158 - 194 °F	Middle, Extrusion
	70.0 - 100 °C	158 - 212 °F	Top, Extrusion
Drying Temperature	70.0 - 80.0 °C	158 - 176 °F	Injection and Extrusion Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection and Extrusion Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

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