

LG Chemical MA221 ABS, High Impact, Low Gloss

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

Material Notes:

Feature: Injection Molding, Extrusion Molding, High Impact, 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-MA221-ABS-High-Impact-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 Â°C, Time 86400 sec	0.19 % @Temperature 73.4 Â°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	5.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	5.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	42.2 MPa @Thickness 3.20 mm	6120 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	>= 50 % @Thickness 3.20 mm	>= 50 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	60.8 MPa @Thickness 3.20 mm	8820 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	3.14 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	5.88 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	5.69 J/cm	10.7 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	
Izod Impact, Unnotched	1.47 J/cm	2.76 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature -20.0 Å°C	@Thickness 0.252 in, Temperature -4.00 Å°F	
	2.94 J/cm	5.51 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 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	98.0 Å°C	208 Å°F	50Å°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 Å°C	356 - 392 Å°F	c
Middle Barrel Temperature	190 - 210 Å°C	374 - 410 Å°F	Injection Molding
Front Barrel Temperature	200 - 220 Å°C	392 - 428 Å°F	Injection Molding
Nozzle Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Zone 1	180 - 200 Å°C	356 - 392 Å°F	Extrusion Molding
Zone 2	190 - 210 Å°C	374 - 410 Å°F	Extrusion Molding
Zone 3	200 - 230 Å°C	392 - 446 Å°F	Extrusion Molding

Zone 4 Processing Properties	200 - 230 Å°C Metric	392 - 446 Å°F English	Extrusion Molding Comments
Adapter Temperature	200 - 230 Å°C	392 - 446 Å°F	Extrusion Molding
Die Temperature	200 - 230 Å°C	392 - 446 Å°F	Extrusion Molding
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection and Extrusion Molding
Mold Temperature	40.0 - 60.0 Å°C	104 - 140 Å°F	Injection 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	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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