

LG Chemical MP220 ABS, High Adhesion, Heat Resistance

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

Material Notes:

Feature: Injection Molding, High Adhesion, Metal PlatingApplication: Automobiles Radiator Grill, MoldingCAS No. 9003-56-9 and 9003-54-7Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-MP220-ABS-High-Adhesion-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 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	18 g/10 min @Load 10.0 kg, Temperature 220 Â°C	18 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	44.1 MPa @Thickness 3.20 mm	6400 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	40 % @Thickness 3.20 mm	40 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	74.5 MPa @Thickness 3.20 mm	10800 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.45 GPa @Thickness 3.20 mm	356 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.55 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	4.78 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	2.55 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	4.78 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
	1.27 J/cm	2.39 ft-lb/in	

Izod Impact, Unnotched Mechanical Properties	Metric @ Thickness 6.40 mm, Temperature -30.0 Â°C	English @ Thickness 0.252 in, Temperature -22.0 Â°F	ASTM D256 Comments
	1.27 J/cm	2.39 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)	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)	89.0 Â°C @Thickness 6.40 mm	192 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	97.0 Â°C @Load 5.00 kg	207 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
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 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
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 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
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	UL 746B
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
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Electrical Properties	Metric	English	Comments
Dielectric Strength	29.0 kV/mm	737 kV/in	
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	
	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	30 - 60 arcs	30 - 60 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
High Voltage Arc-Tracking Rate, HVTR	25.4 - 50.0 mm/min	1.00 - 1.97 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Middle Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Front Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Nozzle Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Melt Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding
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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