



# Lupoy® MP5000AM

LG Chem Ltd. - Polycarbonate + ABS

Friday, May 24, 2019

## General Information

### Product Description

Description  
General Purpose, Metal Plating

Application  
Automotive(Outerior), E&E(Housing)

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• General Purpose	• Platable	
Uses	• Automotive Exterior Parts	• Electrical Housing	• Electrical/Electronic Applications
Processing Method	• Injection Molding		

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	46.1	MPa	
Tensile Elongation <sup>2</sup>			ASTM D638
Break, 23°C, 3.20 mm, Injection Molded	> 100	%	
Flexural Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	1910	MPa	ASTM D790
Flexural Strength <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	71.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	98.0	°C	
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 90	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	235 to 260	°C

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Injection	Nominal Value	Unit
Middle Temperature	235 to 265	°C
Front Temperature	235 to 265	°C
Nozzle Temperature	235 to 265	°C
Processing (Melt) Temp	240 to 265	°C
Mold Temperature	50 to 70	°C
Screw Speed	40 to 70	rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 50 mm/min

<sup>3</sup> 10 mm/min