

# LUPOL GP3102

Injection Molding, PP+MF10%

## Description

General Purpose, High Impact

## Application

Electrical & Electronic, Automotive Parts

Properties	Test Condition	Test Method	Unit	Typical Value
<b>Physical</b>				
Specific Gravity		ASTM D792	-	1.0
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	0.9~1.4
Melt Flow Rate	230 °C/2.16kg	ASTM D1238	g/10min	10
<b>Mechanical</b>				
Tensile Strength, 3.2mm		ASTM D638		
@ Yield	5mm/min		kg/cm <sup>2</sup>	290
Tensile Elongation, 3.2mm		ASTM D638		
@ Yield	5mm/min		%	-
@ Break	5mm/min		%	80.0
Flexural Strength, 6.4mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>	360
Flexural Modulus, 6.4mm	1.3mm/min	ASTM D790	kg/cm <sup>2</sup>	16,000
IZOD Impact Strength, 6.4mm (Notched)	23 °C -10 °C	ASTM D256	kg-cm/cm kg-cm/cm	9.0
Rockwell Hardness	R-Scale	ASTM D785	-	-
<b>Thermal</b>				
Heat Deflection Temperature, 3.2mm (Unannealed)	4.6kg	ASTM D648	°C	130

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23°C, 50% relative humidity.

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### Processing Guide (Injection Molding)

Processing Parameters	Unit	Value	
Drying Temperature	°C	70 ~ 80	
Drying Time	hrs	3 ~ 4	
Minimum Moisture Content	%	0.01	
Melt Temperature	°C	200 ~ 230	
Cylinder Temperature	Rear	°C	190 ~ 210
	Middle	°C	200 ~ 230
	Front	°C	200 ~ 230
Nozzle Temperature	°C	210 ~ 230	
Mold Temperature	°C	40 ~ 60	
Back Pressure	kg/cm <sup>2</sup>	300 ~ 600	
Screw Speed	rpm	30 ~ 60	

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.