



# Lupoy® GP5006BH

LG Chem Ltd. - Polycarbonate + ABS

Friday, May 24, 2019

## General Information

### Product Description

Description

Heat Resistance, Impact Strength , High Toughness

Application

Helmet

### General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Features	• Good Heat Resistance	• Good Impact Resistance	• High Toughness
Uses	• Safety Equipment		
Processing Method	• Injection Molding		

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	3.3	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	56.9	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)	2260	MPa	ASTM D790
Flexural Strength <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	91.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	540	J/m	
23°C, 3.20 mm, Injection Molded	710	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	116	°C	

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	80 to 100	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	240 to 270	°C
Middle Temperature	245 to 275	°C
Front Temperature	245 to 275	°C
Nozzle Temperature	245 to 275	°C

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Injection	Nominal Value	Unit
Processing (Melt) Temp	250 to 275	°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