



**Typical Value** 

## **LUPOL GP1007FH**

Injection molding, PP

### Description

General Purpose, Flame Retardant

**Properties** 

Application General Purpose, Flame Retardant

Unit

Physical Specific Gravity ASTM D792 0.94 Molding Shrinkage (Flow), 3.2mm ASTM D955 % 1.5 ~ 1.8 Melt Flow Rate 230°C/2.16kg ASTM D1238 a/10min 10 Mechanical Tensile Strength, 3.2mm ASTM D638 @ Yield 50mm/min ka/cm<sup>2</sup> 300 Tensile Elongation, 3.2mm ASTM D638 % @ Yield 50mm/min @ Break 50mm/min % 50 Tensile Modulus, 3.2mm 1mm/min ASTM D638 kg/cm Flexural Strength, 3.2mm 10mm/min ASTM D790 380 kg/cm Flexural Modulus, 3.2mm 10mm/min ASTM D790 kg/cm<sup>2</sup> 13,000 IZOD Impact Strength, 3.2mm ASTM D256 23°C 5 (Notched) kg.cm/cm -30°C kg.cm/cm Rockwell Hardness **R-Scale** ASTM D785 Thermal Heat Deflection Temperature, 6.4mm ASTM D648 (Unannealed) 18.6kg °C °C 4.6kg 120 Vicat Softening Temperature ASTM D1525 °C 5kg, 50°C/h **Ball Pressure Temperature** IEC 60695-10-°C Burning Rate, 3.2mm FMVSS 302 mm Flammability **UL94** 0.7mm class 1.2mm class 1.5mm V2 class 3.0mm class **Relative Temperature Index** UL 746B °C 120 Electrical °C Mechanical with Impact 120 °C Mechanical without Impact 120

**Fest Condition Test Method** 

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 humidty.

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#### Electrical

Comparative Tracking Index(CT	Solution A	IEC 60112	Volts	
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23°C	ASTM D257	Ohm∙m	
Arc Resistance	23°C	ASTM D495	Ohm∙cm	
Dielectric Strength, 1mm	23°C	ASTM D149	kV/mm	
Dielectric Constant (10 <sup>6</sup> Hz)	23°C	ASTM D150	sec	

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**Processing Guide (Extrusion 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
Barrel Temperature	Rear	°C	190~210
	Middle	°C	200~230
	Front	°C	200~230
Die 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.

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