

LG Chemical LUPOL GP-3154F General Purpose Polypropylene, 15% Mineral Fillers, High Modulus, Flame Retardant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

LUPOL resins, based on polyolefin with a wide range of characteristics, are a family of low cost engineering plastics. Applications:

Automotive: Bumper cover, instrument panel, glove box, air cleaner, mud guard, door trim, garnish
Electrical and Electronic: Tail lamp housing, air conditioner housing, fan, socket, washing machine parts
Industrial Parts and Household Appliance: Propeller fan, pulley, container, pump container, pump casing, handle and switch cover of electric jar, fan shroud/support
Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-GP-3154F-General-Purpose-Polypropylene-15-Mineral-Fillers-High-Modulus-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	46.0 MPa	6670 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Izod Impact, Notched	0.300 J/cm @Temperature 23.0 Â°C	0.562 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.770 mm	V-0 @Thickness 0.0303 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Middle Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	

Front Barrel Temperature Processing Properties	210 - 230 Å°C Metric	410 - 446 Å°F English	Comments
Nozzle Temperature	210 - 240 Å°C	410 - 464 Å°F	
Melt Temperature	210 - 240 Å°C	410 - 464 Å°F	
Mold Temperature	40.0 - 90.0 Å°C	104 - 194 Å°F	
Drying Temperature	70.0 - 90.0 Å°C	158 - 194 Å°F	
Dry Time	2 - 3 hour	2 - 3 hour	
Injection Pressure	29.4 - 118 MPa	4260 - 17100 psi	First
	78.45 - 98.07 MPa	11380 - 14220 psi	Second
Back Pressure	0.490 - 3.92 MPa	71.1 - 569 psi	
Screw Speed	40 - 60 rpm	40 - 60 rpm	

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