

LG Chemical LUPOL LW-4407 Low Warpage Polypropylene, 40% Glass Fiber/Mineral Filler Reinforced, Heat Resistant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Glass/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-LW-4407-Low-Warpage-Polypropylene-40-Glass-FiberMineral-Filler-Reinforced-Heat-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	63.0 MPa	9140 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	5.88 GPa	853 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm @Temperature 23.0 Â°C	1.12 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	150 Â°C	302 Â°F	ASTM D648

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	210 - 230 Â°C	410 - 446 Â°F	
Nozzle Temperature	210 - 240 Â°C	410 - 464 Â°F	

Processing Properties	Metric $^{\circ}\text{C}$	English $^{\circ}\text{F}$	Comments
Mold Temperature	40.0 - 90.0 $^{\circ}\text{C}$	104 - 194 $^{\circ}\text{F}$	
Drying Temperature	70.0 - 90.0 $^{\circ}\text{C}$	158 - 194 $^{\circ}\text{F}$	
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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