

LG Chemical LUPOL HM-5204B High Modulus Polypropylene, 20% Polymer Alloy, High Strength, High Flow, High Modulus

Category : Polymer , Thermoplastic , Polypropylene (PP)

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-HM-5204B-High-Modulus-Polypropylene-20-Polymer-Alloy-High-Strength-High-Flow-High-Modulus.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.990 g/cc	0.990 g/cc	ASTM D792
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Strength	41.0 MPa	5950 psi	ASTM D790
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm @Temperature 23.0 Â°C	1.31 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 Â°C	280 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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