

LG Chemical LUPOL SO-5202P High Impact Polypropylene, 20% Polymer Alloy

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-SO-5202P-High-Impact-Polypropylene-20-Polymer-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	18.0 MPa	2610 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638
Flexural Strength	29.0 MPa	4210 psi	ASTM D790
Flexural Modulus	1.81 GPa	263 ksi	ASTM D790
Izod Impact, Notched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	125 Â°C	257 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	
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	

Processing Properties	Metric	English	Comments
Drying Temperature	70.0 - 90.0 Â°C	158 - 194 Â°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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