

## LG Chemical LUCEL HI510 POM+Rubber, High Impact

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Feature: Injection Molding, POM+Rubber, High Impact  
 Application: Gears, Automobile Clip  
 CAS No. 66455-31-0  
 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUCEL-HI510-POMRubber-High-Impact.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUCEL-HI510-POMRubber-High-Impact.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Maximum Moisture Content	0.10	0.10	Injection Molding
Linear Mold Shrinkage, Flow	0.017 - 0.020 cm/cm @Thickness 3.20 mm	0.017 - 0.020 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 190 Â°C	14 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	ASTM D785
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	90 % @Thickness 3.20 mm	90 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	64.7 MPa @Thickness 3.20 mm	9390 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	1.86 GPa @Thickness 3.20 mm	270 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	1.18 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	2.20 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C @Thickness 6.40 mm	302 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties (Temperature at 1.8 MPa (264 psi))	Metric 95.0 Â°C	English 203 Â°F	Comments Unannealed; ASTM D548
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	50.0 Â°C @Thickness 0.950 - 2.90 mm	122 Â°F @Thickness 0.0374 - 0.114 in	
UL RTI, Mechanical with Impact	50.0 Â°C @Thickness 0.950 - 2.90 mm	122 Â°F @Thickness 0.0374 - 0.114 in	
UL RTI, Mechanical without Impact	50.0 Â°C @Thickness 0.950 - 2.90 mm	122 Â°F @Thickness 0.0374 - 0.114 in	
Flammability, UL94	HB @Thickness >=0.980 mm	HB @Thickness >=0.0386 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	160 - 180 Â°C	320 - 356 Â°F	Injection Molding
Middle Barrel Temperature	170 - 190 Â°C	338 - 374 Â°F	Injection Molding
Front Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Nozzle Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Melt Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Mold Temperature	80.0 - 110 Â°C	176 - 230 Â°F	Injection Molding
Drying Temperature	80.0 - 110 Â°C	176 - 230 Â°F	Injection Molding
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	Injection Molding
Back Pressure	0.490 - 3.04 MPa	71.1 - 441 psi	Injection Molding
Screw Speed	50 - 100 rpm	50 - 100 rpm	Injection Molding

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