

## LG Chemical LUCEL EC-605B Electrically Conductive POM, 5% Carbon Black Filled

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

LUCEL semi-crystalline acetal copolymer resins are produced by gas phase polymerization. LUCEL resins can be widely accepted as the replacement of thermosets, aluminum and zinc die-casts or other metals. Characteristics: No pungent smell in processingExcellent thermal stability based on structure of Acetal CopolymerWell balanced mechanical properties and resistance to creepHighest fatigue resistance to organic and chemical and hot waterExcellent friction and abrasion resistanceHigh dimensional stability and good moldabilityEasy part design and application over a broad range of environmental conditionsApplications: Automotive: Water valve parts, radiator drain cock, carburetor float, exhaust gas valve, diaphragm valve, door lock, winker switch, wiper gear and pivot bearing, speedometer gear, window glass bottom channel, safety belt, retractor parts, door handle, lumbar support handle, sun visor bracket, collapsible room mirror stay, fender mirror body, waster pump nozzleElectrical and Electronic: Switch, coil bobbin, micrometer base, tuner parts, control switch parts, dial mechanism, cassette tape reel, power transmission gear, shaft nearing, bracket, fan motor housing, spring frame of headphone, arc shooter, toner agitating rotor, printer mechanism, gas meter componentIndustrial Parts and Others: Spring, bearing, spray guns, power cylinder, watch gear, alarm clock base, hot water pot housing, gear housing, table top chain runner, zipper, partition corner piece curtain runner, blind gear, door runner, office furniture parts, accessories, comb, pressure containerInformation Provided by LG Chem

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUCEL-EC-605B-Electrically-Conductive-POM-5-Carbon-Black-Filled.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUCEL-EC-605B-Electrically-Conductive-POM-5-Carbon-Black-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Linear Mold Shrinkage	0.018 - 0.021 cm/cm	0.018 - 0.021 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength at Break	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	3.00 J/cm	5.62 ft-lb/in	Reverse notched; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C	320 Â°F	ASTM D648

Deflection Temperature at 1.8 MPa (100 psi) Thermal Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Rear Barrel Temperature	170 - 190 Â°C	338 - 374 Â°F	
Middle Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Nozzle Temperature	200 - 220 Â°C	392 - 428 Â°F	
Melt Temperature	210 - 220 Â°C	410 - 428 Â°F	
Mold Temperature	60.0 - 120 Â°C	140 - 248 Â°F	
Drying Temperature	90.0 - 110 Â°C	194 - 230 Â°F	
Dry Time	3 - 6 hour	3 - 6 hour	
Injection Pressure	39.23 - 83.36 MPa	5690 - 12090 psi	Second
	68.7 - 118 MPa	9960 - 17100 psi	First
Back Pressure	0.000 - 3.92 MPa	0.000 - 569 psi	
Screw Speed	40 - 75 rpm	40 - 75 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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