

LG Chemical LUCEL N109-02 General Purpose POM, Unreinforced, Externally Lubricated, Standard Viscosity

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

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 processing Excellent thermal stability based on structure of Acetal Copolymer Well balanced mechanical properties and resistance to creep Highest fatigue resistance to organic and chemical and hot water Excellent friction and abrasion resistance High dimensional stability and good moldability Easy part design and application over a broad range of environmental conditions Applications: 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 nozzle Electrical 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 component Industrial 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 container Information Provided by LG Chem

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http://www.lookpolymers.com/polymer_LG-Chemical-LUCEL-N109-02-General-Purpose-POM-Unreinforced-Externally-Lubricated-Standard-Viscosity.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Linear Mold Shrinkage	0.018 - 0.021 cm/cm	0.018 - 0.021 in/in	ASTM D955
Melt Index of Compound	9.0 g/10 min @Load 2.16 kg, Temperature 190 Å°C	9.0 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	82	82	ASTM D785
Tensile Strength at Break	61.0 MPa	8850 psi	ASTM D638
Elongation at Break	65 %	65 %	ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	8.00 J/cm	15.0 ft-lb/in	Reverse notched; ASTM D256

Coefficient of Friction, Dynamic Mechanical Properties	0.16 Metric	0.16 English	ASTM D1894 Comments
Coefficient of Friction, Static	0.12	0.12	ASTM D1894
Taber Abrasion, mg/1000 Cycles	14	14	CS 17 Wheel, 1000g; ASTM D1044

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 (264 psi)	110 Â°C	230 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	160 - 180 Â°C	320 - 356 Â°F	
Middle Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	
Front Barrel Temperature	190 - 200 Â°C	374 - 392 Â°F	
Nozzle Temperature	190 - 200 Â°C	374 - 392 Â°F	
Melt Temperature	190 - 200 Â°C	374 - 392 Â°F	
Mold Temperature	60.0 - 100 Â°C	140 - 212 Â°F	
Drying Temperature	90.0 - 110 Â°C	194 - 230 Â°F	
Dry Time	3 - 6 hour	3 - 6 hour	
Injection Pressure	34.32 - 68.65 MPa	4978 - 9957 psi	Second
	39.2 - 118 MPa	5690 - 17100 psi	First
Back Pressure	0.000 - 3.92 MPa	0.000 - 569 psi	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

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