

## LG Chemical LUCEL FW700S Modified POM, Friction Resistance, Abrasion Resistance

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

### Material Notes:

Feature: Injection Molding, Modified POM, Friction Resistance, Abrasion Resistance  
 Application: Gears, Printer Roller Pumps, Gear Worm  
 Wheels  
 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-FW700S-Modified-POM-Friction-Resistance-Abrasion-Resistance.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUCEL-FW700S-Modified-POM-Friction-Resistance-Abrasion-Resistance.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Maximum Moisture Content	0.10	0.10	Injection Molding
Linear Mold Shrinkage, Flow	0.020 - 0.022 cm/cm @Thickness 3.20 mm	0.020 - 0.022 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 190 Â°C	10 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	70 % @Thickness 3.20 mm	70 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	78.5 MPa @Thickness 3.20 mm	11400 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	2.35 GPa @Thickness 3.20 mm	341 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.883 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	1.65 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)	155 Â°C	311 Â°F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	105 Å°C @Thickness 6.40 mm	221 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	50.0 Å°C @Thickness 0.950 - 2.90 mm	122 Å°F @Thickness 0.0374 - 0.114 in	
UL RTI, Mechanical with Impact	50.0 Å°C @Thickness 0.950 - 2.90 mm	122 Å°F @Thickness 0.0374 - 0.114 in	
UL RTI, Mechanical without Impact	50.0 Å°C @Thickness 0.950 - 2.90 mm	122 Å°F @Thickness 0.0374 - 0.114 in	
Flammability, UL94	HB @Thickness >=0.950 mm	HB @Thickness >=0.0374 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	160 - 180 Å°C	320 - 356 Å°F	Injection Molding
Middle Barrel Temperature	170 - 190 Å°C	338 - 374 Å°F	Injection Molding
Front Barrel Temperature	180 - 200 Å°C	356 - 392 Å°F	Injection Molding
Nozzle Temperature	180 - 200 Å°C	356 - 392 Å°F	Injection Molding
Melt Temperature	200 - 220 Å°C	392 - 428 Å°F	Injection Molding
Mold Temperature	80.0 - 110 Å°C	176 - 230 Å°F	Injection Molding
Drying Temperature	90.0 - 110 Å°C	194 - 230 Å°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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