

LG Chemical Lucet® N109 Acetal Copolymer

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

Material Notes:

Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lucet-N109-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.22 %	0.22 %	24 hours at 73°F; ASTM D570
Linear Mold Shrinkage	0.018 - 0.021 cm/cm	0.018 - 0.021 in/in	ASTM D955
Melt Flow	9.0 g/10 min @Load 2.16 kg, Temperature 190 °C	9.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	82	82	ASTM D785
Tensile Strength, Yield	60.8 MPa	8820 psi	23°C; 50% RH; ASTM D638
Elongation at Break	65 %	65 %	ASTM D638
Flexural Yield Strength	89.2 MPa	12900 psi	23°C; 50% RH; ASTM D570
Flexural Modulus	2.55 GPa	370 ksi	23°C; 50%RH; ASTM D570
Izod Impact, Notched	0.686 J/cm	1.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM D648
Flammability, UL94	HB @Thickness 0.7937 mm	HB @Thickness 0.03125 in	UL94

Electrical Properties	Metric	English	Comments
Arc Resistance	240 sec	240 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature			

Processing Properties	160 - 180 Â°C Metric	320 - 356 Â°F English	Comments
Middle Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	
Front Barrel Temperature	190 - 215 Â°C	374 - 419 Â°F	
Nozzle Temperature	190 - 215 Â°C	374 - 419 Â°F	
Melt Temperature	200 - 225 Â°C	392 - 437 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	
Screw Speed	50 - 100 rpm	50 - 100 rpm	

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