

Lucet® N109-LD

Acetal (POM) Copolymer

LG Chem Ltd.

Message:

Lucet® N109-LD is an Acetal (POM) Copolymer material. It is available in North America for injection molding.

Important attributes of Lucet® N109-LD are:

- Flame Rated
- Chemical Resistant
- Copolymer
- Creep Resistant
- Good Dimensional Stability

General Information			
UL YellowCard	E67171-248302	E67171-248303	
Additive	Lubricant		
Features	Copolymer		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Moldability		
	Good Thermal Stability		
	Lubricated		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8 to 2.1	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	82		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	61.2	MPa	ASTM D638
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	2600	MPa	ASTM D790
Flexural Strength (Yield)	98.0	MPa	ASTM D790
Coefficient of Friction (vs. Itself - Static)	0.16		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-40°C	49	J/m	
23°C	69	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	110	°C	
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	24	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Dissipation Factor (1 MHz)	7.0E-3		ASTM D150
Arc Resistance (3.18 mm)	240	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	160 to 180	°C	
Middle Temperature	180 to 200	°C	
Front Temperature	190 to 200	°C	
Nozzle Temperature	190 to 210	°C	
Processing (Melt) Temp	190 to 200	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	39.2 to 68.6	MPa	
Back Pressure	3.92 to 7.84	MPa	
Screw Speed	50 to 100	rpm	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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