Lucet® N127-02

Acetal (POM) Copolymer

LG Chem Ltd.

Message:

Lucet® N127-02 is an Acetal (POM) Copolymer material. It is available in North America for injection molding.
Important attributes of Lucet® N127-02 are:
Flame Rated
Chemical Resistant
Copolymer
Creep Resistant
Good Dimensional Stability

General Information			
Additive	Lubricant		
Features	Copolymer General Purpose 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/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27	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)	45	%	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	47	J/m	
23°C	59	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	

Recommended distributors for this material

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