

Lucet® FW-700S

Acetal (POM) Copolymer

LG Chem Ltd.

Message:

Lucet® FW-700S is an Acetal (POM) Copolymer material. It is available in North America for injection molding.

Important attributes of Lucet® FW-700S are:

- Flame Rated
- Wear Resistant
- Chemical Resistant
- Copolymer
- Creep Resistant

General Information			
Additive	Silicone Lubricant		
Features	Copolymer		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Moldability		
	Good Thermal Stability		
	Good Wear Resistance		
	Low Friction		
	Lubricated		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage - Flow	2.0 to 2.2	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	53.9	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	2160	MPa	ASTM D790
Flexural Strength (Yield)	68.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	49	J/m	
23°C	64	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
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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