

Lucel® FW700S

Acetal (POM) Copolymer

LG Chem Ltd.

Message:

Lucel®FW700S is a polyoxymethylene (POM) copolymer material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Lucel®The main features of FW700S are:

flame retardant/rated flame

Wear-resistant

Lubrication

Typical application areas include:

engineering/industrial accessories

printing applications

General Information			
UL YellowCard	E67171-248282		
Additive	Silicone lubricant		
Features	Low friction coefficient		
	Good wear resistance		
	Lubrication		
Uses	Gear		
	Printing machine parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	2.0 - 2.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	53.9	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	70	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2350	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed, 6.40mm	155	°C	ASTM D648
1.8 MPa, annealed, 6.40mm	105	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.950 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 110	°C	
Drying Time	2.0 - 3.0	hr	
Rear Temperature	160 - 180	°C	
Middle Temperature	170 - 190	°C	
Front Temperature	180 - 200	°C	
Nozzle Temperature	180 - 200	°C	
Processing (Melt) Temp	200 - 220	°C	
Mold Temperature	80.0 - 110	°C	
Back Pressure	0.490 - 3.04	MPa	
Screw Speed	50 - 100	rpm	
Injection instructions			
Minimum Moisture Content: 0.1%			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT