

SolutionPartner


LUCEL FW700S

Injection Modified POM

Description

Friction resistance, Abrasion resistance

Application

Gear, Printer roller pump, Gear worm wheels

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.40
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	2.0 ~ 2.2
Melt flow rate		ASTM D1238	g/10min	10
Mechanical				
Tensile Strength, 3.2mm		ASTM D638		
@Yield	10 mm/min		kg/cm ²	550
Tensile Elongation, 3.2mm		ASTM D638		
@Break	10 mm/min		%	70
Flexural Strength, 6.4mm	2.8 mm/min	ASTM D790	kg/cm ²	800
Flexural Modulus, 6.4mm	2.8 mm/min	ASTM D790	kg/cm ²	24,000
Izod Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 °C		kg·cm/cm	9.0
Rockwell Hardness	R-Scale	ASTM D785	-	80
Thermal				
Heat Deflection Temperature, 6.4mm		ASTM D648		
	18.6 kg		°C	105
	4.6 kgf		°C	155
Flammability		UL94		
	0.95 mm		class	HB
Electrical				
Dissipation factor		ASTM D150		
	1 MHz			
Surface Resistivity		ASTM D257	Ohm	1 x 10 ¹⁶
Volume Resistivity	23 °C	ASTM D257	Ohm·cm	1 x 10 ¹⁴
Dielectric Strength	23 °C	ASTM D149	kV/mm	

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
[Pre-drying]			
Drying Temperature		°C	90 ~ 110
Drying Time		hrs	2 ~ 3
Maximum Moisture Content		%	0.1
[Temperature]			
Mold temperature		°C	80 ~ 110
Cylinder Temperature	Rear		160 ~ 180
	Middle	°C	180 ~ 200
	Front	°C	190 ~ 200
Nozzle Temperature		°C	180 ~ 200
Back Pressure		bar	5 ~ 31
Screw Speed		mm/s	50 ~ 100

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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