

LUCEL

POM

FW700S

Product information

Part Marking Code	POM			
Material Shape	Pellets			
Process	Injection molding			
FR	HB			
Material Attribute	Wear resistant grade			
Features	low wear			
Application	Printer components, gears, worm gears, and gears			
Electrical properties	Condition	Standard	Value	Unit
Surface Resistivity		ASTM D257	1E14	Ω
Volume Resistivity	23°C	ASTM D257	1E16	Ω.cm
Mechanical behavior	Condition	Standard	Value	Unit
Tensile Strength	Yield 50mm/min 3.2mm	ASTM D638	53.92	MPa
Elongation	Fracture 50mm/min 3.2mm	ASTM D638	70	%
Flexural Modulus	1.3mm/min 3.2mm	ASTM D790	2352.94	MPa
Flexural Strength	1.3mm/min 3.2mm	ASTM D790	78.43	MPa
Izod Notch Impact	23°C 6.4mm	ASTM D256	9	kJ/m ²
Thermal	Condition	Standard	Value	Unit
HDT	Unannealed 0.45MPa 6.4mm	ASTM D648	155	°C
HDT	Unannealed 1.8MPa 6.4mm	ASTM D648	105	°C
Physical property	Condition	Standard	Value	Unit
Density		ASTM D792	1.4	g/cm ³
Melt Index	190°C 2.16kg	ASTM D1238	10	g/10min
Shrinkage	Flow 3.2mm	ASTM D955	2~2.2	%
Hardness	Condition	Standard	Value	Unit
Rockwell Hardness	R(Scale)	ASTM D785	80	
Flammability	Condition	Standard	Value	Unit
Flame Rating	Full color 0.95-2.9mm	UL94	HB	