

LUCEL

POM

FW700N

Product information

Part Marking Code	POM
Process	Injection molding
Material Attribute	Wear resistant grade
Features	low wear
Application	Printer components, gears, worm gears, and gears

Mechanical behavior	Condition	Standard	Value	Unit
Tensile Strength	Yield 50mm/min 3.2mm	ASTM D638	53.72	MPa
Elongation	Fracture 50mm/min 3.2mm	ASTM D638	34	%
Flexural Modulus	1.3mm/min 3.2mm	ASTM D790	1805.58	MPa
Flexural Strength	1.3mm/min 3.2mm	ASTM D790	70.29	MPa
Izod Notch Impact	23°C 6.4mm	ASTM D256	4.6	kJ/m ²

Thermal	Condition	Standard	Value	Unit
HDT	Unannealed 1.8MPa 6.4mm	ASTM D648	93	°C

Physical property	Condition	Standard	Value	Unit
Density		ASTM D792	1.39	g/cm ³
Melt Index	190°C 2.16kg	ASTM D1238	15	g/10min
Shrinkage	Flow 3.2mm	ASTM D955	1.8~2.2	%