

# LUCEL

## POM

### FW715CS

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			
Mechanical behavior	Condition	Standard	Value	Unit
Tensile Strength	Yield 5mm/min 3.2mm	ASTM D638	43.23	MPa
Elongation	Fracture 5mm/min 3.2mm	ASTM D638	123	%
Flexural Modulus	1.3mm/min 3.2mm	ASTM D790	1986.56	MPa
Flexural Strength	1.3mm/min 3.2mm	ASTM D790	64.70	MPa
Izod Notch Impact	23°C 6.4mm	ASTM D256	5.1	kJ/m <sup>2</sup>
Thermal	Condition	Standard	Value	Unit
HDT	Unannealed 1.8MPa 6.4mm	ASTM D648	92	°C
Physical property	Condition	Standard	Value	Unit
Density		ASTM D792	1.49	g/cm <sup>3</sup>
Melt Index	190°C 2.16kg	ASTM D1238	10	g/10min
Shrinkage	Flow 3.2mm	ASTM D955	1.7~2.1	%
Hardness	Condition	Standard	Value	Unit
Rockwell Hardness	M(Scale)	ASTM D785	69	
Flammability	Condition	Standard	Value	Unit
Flame Rating	0.95mm	UL94	HB	