

## Technical Datasheet POM M90

### 1) Product Description:

Celcon acetal copolymer grade M90 is a medium viscosity polymer providing optimum performance in general purpose injection molding and extrusion of thin walled tubing and thin gauge film. This grade provides overall excellent performance in many applications

### 2) Applications:

- Film
- General Purpose
- Tubing

### 3) Typical data:

Property	Test method	Unit	Value*
Density -Specific Gravity	ASTM D 792	Sp gr 23/23°C	1.41
Melt Mass-Flow Rate (MFR)	ASTM D 1238	g/10 min	9.0
Mold Shrink, Linear-flow	ASTM D955	In/in	0.022
Mold Shrink, Linear-Trans	ASTM D955	In/in	0.018
Water Absorption Sat/23°C	ISO 62	%	0.75
Water Absorption 23C/50RH	ISO 62	%	0.20
Tensile Modulus <sup>2</sup>	ISO527-1, -2	psi	400000
Tensile Strength @ Yield (-40 °F)	ASTM D638	Psi	13700
(73 °F)		Psi	8800
(160 °F)		psi	5000
Tensile Stress at Yield <sup>3</sup>	ISO 527-1, -2	Psi	9570
Tensile Strain at Yield <sup>3</sup>	ISO 527-1, -2	%	10
Flexural Modulus (73 °F)	ISO 178	psi	370000
Notched Izod Impact Strength (73 °F) <sup>4</sup>	ISO 180	Ft-lb/in <sup>2</sup>	2.71
DTUL @264psi-Unannealed	ASTM D 648	°F	230
Melting Point		°F	329
Volume Resistivity	ASTM D527	Ohm-cm	1.0E+14

\* Typical values not to be construed as specifications.