Lucent Polymers POM-500 Acetal Homopolymer, General Purpose, Injection Grade

Categories:	Polymer; Thermoplastic; Acetal (POM); Acetal Homopolymer, Unreinforced
Material Notes:	Add "U" for UV Stabilized Information provided by Lucent Polymers, Inc.
Key Words:	POM
Vendors:	No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0210 cm/cm @Thickness 3.17 mm	0.0210 in/in @Thickness 0.125 in	1/8" Section
Melt Flow	12.0 g/10 min @Load 2.16 kg, Temperature 190 °C	12.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.97 MPa	10000 psi	ASTM D638
Elongation at Break	>= 20.0 %	>= 20.0 %	ASTM D638
Flexural Modulus	2.82759 GPa	410.108 ksi	ASTM D790
Flexural Strength	100 MPa	14500 psi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	1.30 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	170 - 175 °C	338 - 347 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's terms of use regarding this information. Click here to view all the property values for this datasheet as they were originally entered into MatWeb.