

## POM C Acetal Copolymer

PROPERTY	TEST METHOD	NOTES	METRIC	UNITS	IMPERIAL	UNITS
<b>GENERAL</b>						
Colour	-	-	-	White	-	White
Density	ISO 1183:1997	Test Method A	g/cm <sup>3</sup>	1.410	lb/inchE3	0.051
Moisture Absorption (Equilibrium)	ISO 62:1999	50% RH, 23°C	%	0.1	%	0.1
Water Absorption @24 hrs	ISO 62:1999 (modified)	Immersion @ 23°C	%	0.20	%	0.20
Water Absorption @24 hrs Saturation	ISO 62:1999	Immersion @ 23°C	%	0.90	%	0.90
<b>MECHANICAL</b>						
Tensile Strength at Yield	ISO 527-1/2;1993	Sample Type 1B, 50mm/min	MPa	70	psi	10153
E-modulus	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	MPa	2700	psi	391603
Elongation at Break	ISO 527-1/2:1993	Sample Type 1B, 50mm/min	%	15	%	15
Compressive Strength	ISO 604:2002	Sample Type B, 5mm/min	MPa	110	psi	15954
Compressive Modulus	ISO 604:2002	Sample Type A, 1mm/min	MPa	2600	psi	377099
Flexural Strength	ISO 178:2001	1.5mm/min	MPa	80	psi	11603
Flexural Modulus	ISO 178:2001	1.5mm/min	MPa	2600	psi	377099
Izod Impact Strength	ISO 180:2000	Sample Type A (notched)	kJ/mm <sup>2</sup>	7.20	ft.lb/inE2	3.43
Dynamic Coefficient of Friction	-	31.4m/min, 1.75MPa	-	0.25	-	0.25
Limiting PV	-	-	MPa/m	6	psi.ft/min	2712
Hardness (Shore D)	ISO 868:2003	-	-	85	-	85
<b>THERMAL</b>						
Melting Temperature, Tg	-	-	°C	170	°F	338
Glass Transition Temperature	ISO 11359:1999	-	°C	-60	°F	-76
Heat Deflection Temperature, HDT/A	ISO 75	1.80MPa	°C	110	°F	230
Maximum/Minimum Continuous Service Temperatures	-	-	°C	90/-	°F	184/-
Maximum/Minimum Intermittent Service Temperatures	-	-	°C	140/-	°F	284/-
Coefficient of Linear Thermal Expansion	ISO 11359-2:1999	23-55°C	°C <sup>-1</sup>	9.2x10 <sup>-5</sup>	°F <sup>-1</sup>	5.11x10 <sup>-5</sup>
Thermal Conductivity	ISO 8301:1991	Mean T = 20°C	W/moC	0.31	BTUin/ft.her°F	0.18
Flammability	IEC 60695-11-10:2003-08	-	-	HB	-	HB
<b>ELECTRICAL</b>						
Dielectric Constant	IEC 60250:1969-01	1MHz	-	3.8	-	3.9
Dissipation Factor	IEC 60250:1969-01	100Hz	Hz	0.005	Hz	0.005
Dielectric Strength	IEC 60243:-1:1998-01	-	kV/m	16.5	kV/in	419.1
Volume Resistivity	IEC 60093:1980-01	-	ohm.m	1x10 <sup>13</sup>	ohm.im	2.93x10 <sup>14</sup>
Surface Resistivity	IEC 60093:1980-01	-	ohm	1x10 <sup>13</sup>	ohm	1x10 <sup>13</sup>
Comparative Tracking Index	IEC 60112:2003-01	-	CTI	600	CTI	600
<b>FDA COMPATIBILITY</b>						
FDA Compatibility				NO		NO

## PRODUCT AVAILABILITY

Rod	10mm-500mm DIA
Tube	50mm-1000mm OD
Plate	6mm-100mm THICKNESS
Custom Castings	Bespoke
Cut to size	Available upon request

## NOTES

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