



Phone: (517) 295-4196 Fax: (517) 295-4918

**Technical Data Sheet**  
**LCA® POM 100P Type**  
**Acetal Homopolymer**

Typical Compound Properties	Value / Measure		Test Methods
<b>Physical Properties</b>			
	English Units (ISO)	Metric Units	
Density	1.40 g/cm3	1.40 g/cm3	ASTM D-792
Melt Flow	2 g/10 min	2 g/10 min	ASTM D-1238
Linear Mold Shrinkage	in/in	mm/mm	ASTM D-955
<b>Mechanical Properties</b>			
Izod Impact - Notched	2.00 ft-lb/in (kJ/m2)	107 J/m	ASTM D-256
Tensile Strength @ Yield	psi (Mpa)	0 MPa	ASTM D-638
Tensile Strength @ Break	9,500 psi (Mpa)	66 MPa	ASTM D-638
Tensile Elongation @ Yield	%	0 %	ASTM D-638
Tensile Elongation @ Break	50 %	50 %	ASTM D-638
Flexural Strength @ Yield	psi (Mpa)	MPa	ASTM D-790
Flexural Stress @ Break	psi (Mpa)	MPa	ASTM D-790
Flexural Stress @ 5% Strain	psi (Mpa)	MPa	ASTM D-790
Flexural Modulus	psi (Mpa)	MPa	ASTM D-790
<b>Thermal Properties</b>			
DTUL @ 66 psi (455 kPa)	325 Deg. F	163 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	203 Deg. F	95 Deg. C	ASTM D-648
Vicat Softening Temperature	Deg. F	Deg. C	ASTM D-1525

All tests are performed on dry as molded ASTM (ISO) test bars.

**General Product Type Information**

The property values listed above have been obtained using laboratory controlled test methods. They are offered without guarantee since conditions under which the product is used are beyond our control. Therefore, Uniplas, Inc. disclaims any liability for loss or damage incurred in connection with the use of this product.

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Typical Processing Conditions			
Process Variable	Description	Values	
<b>Temperatures</b>		<b>F</b>	<b>C</b>
Barrel	Rear	365 - 380	
	Center	365 - 380	
	Front	365 - 380	
	Nozzle	390 - 420	
	Mold	175 - 210	
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<b>Drying</b>			
Type		Dehumidifier	
Temperature		175°F	
Time		2 - 4 hours	
Max. % Moisture		0.2	
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<b>Special Requirements</b>			
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Optimum processing conditions will depend on such factors as machine size, screw design, part dimension, mold design, runner and gate design, and material residence time. These recommendations are intended only as a guide to achieve stable processing and good part quality.

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