



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

Technical Data Sheet

LCA® POMCO9IM Black

Acetal Copolymer Unfilled, Medium Viscosity, Impact Modified

Typical Compound Properties	Value / Measure		Test Methods
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Physical Properties	English Units (ISO)	Metric Units	
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Melt Flow Rate @ 190 / 2.16	8 g/10 min		ASTM D-1238
Density	1.39 g/cm ³	1.39 g/cm ³	ASTM D-792
Linear Mold Shrinkage	0 in/in	0 %	ASTM D-955

Mechanical Properties			
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Izod Impact - Notched	2 ft-lb/in ²	107 J/m	ASTM D-256
Tensile Strength @ Yield	7,500 psi (Mpa)	52 MPa	ASTM D-638
Tensile Strength @ Break	- psi (Mpa)	0 MPa	ASTM D-638
Tensile Elongation @ Yield	0 %	0 %	ASTM D-638
Tensile Elongation @ Break	60 %	60 %	ASTM D-638
Flexural Strength @ Yield	10,000 psi (Mpa)	69 MPa	ASTM D-790
Flexural Stress @ Break	psi (Mpa)	0 MPa	ASTM D-790
Flexural Stress @ 5% Strain	psi (Mpa)	0 MPa	ASTM D-790
Flexural Modulus	310,000 psi (Mpa)	2,139 MPa	ASTM D-790

Thermal Properties			
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DTUL @ 66 psi (455 kPa)	101 Deg. F	214 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	Deg. F	Deg. C	ASTM D-648
Vicat Softening Temperature	Deg. F	Deg. C	ASTM D-1525
Melt Point	333 Deg. F	167 Deg. C	ASTM D-789

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

General Product Type Information			
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Flammability	@ .125	HB	
FMVSS 302	in/min	<4	
Linear Thermal Expansion	in/in Deg. F	cm/cm Deg.C	
Hardness, Shore	D	D	

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
Temperatures		F C
Barrel	Rear	340-360
	Center	360-375
	Front	360-380
	Nozzle	375-400
	Mold	170-200
	Processing (Melt) Temp	350-390
Drying		
Type		Dessicant
Temperature		180°F
Time		2 - 4 hours
Moisture Content		
Special Requirements		

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.