



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

## Technical Data Sheet

### LCA® N66-101 HSL Type Black

#### Utility Grade Nylon 66 Heat Stabilized, Lubricated

Typical Compound Properties	Value / Measure		Test Methods
<b>Physical Properties</b>			
	English Units (ISO)	Metric Units	
Density	1.14 g/cm <sup>3</sup>	1.14 g/cm <sup>3</sup>	ASTM D-792
Ash Content	%	%	ASTM D-5630
Linear Mold Shrinkage	0.015 in/in	mm/mm	ASTM D-955
<b>Mechanical Properties</b>			
Izod Impact - Notched	1 ft-lb/in (kJ/m <sup>2</sup> )	53 J/m	ASTM D-256
Tensile Strength @ Yield	10,000 psi (Mpa)	69 MPa	ASTM D-638
Tensile Strength @ Break	psi (Mpa)	0 MPa	ASTM D-638
Tensile Elongation @ Yield	%	0 %	ASTM D-638
Tensile Elongation @ Break	25 %	25 %	ASTM D-638
Flexural Strength @ Yield	psi (Mpa)	0 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	410,000 psi (Mpa)	2,829 MPa	ASTM D-790
<b>Thermal Properties</b>			
DTUL @ 66 psi (455 kPa)	410 Deg. F	210 Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	149 Deg. F	65 Deg. C	ASTM D-648
Vicat Softening Temperature	Deg. F	Deg. C	ASTM D-1525
Melt Point	482 Deg. F	250 Deg. C	

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	500 - 560	
	Center	510 - 560	
	Front	510 - 560	
	Nozzle	500 - 550	
	Mold	100 - 200	
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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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