



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

## Technical Data Sheet

### LCA® N66-33GFHSL Utility Grade

#### Utility Grade Nylon 66, 33% Glass Fiber, Heat Stabilized, Lubricated

Typical Compound Properties	Value / Measure		Test Methods
-----------------------------	-----------------	--	--------------

Physical Properties	English Units (ISO)	Metric Units	
---------------------	---------------------	--------------	--

Density	1.4 g/cm <sup>3</sup>	1.4 g/cm <sup>3</sup>	ASTM D-792
Ash Content	33 %	33 %	ASTM D-5630
Linear Mold Shrinkage	0.001 - 0.004 in/in	mm/mm	ASTM D-955

Mechanical Properties			
-----------------------	--	--	--

Izod Impact - Notched	1.50 ft-lb/in (kJ/m <sup>2</sup> )	80 J/m	ASTM D-256
Tensile Strength @ Yield	psi (Mpa)	0 MPa	ASTM D-638
Tensile Strength @ Break	18,500 psi (Mpa)	128 MPa	ASTM D-638
Tensile Elongation @ Yield	%	0 %	ASTM D-638
Tensile Elongation @ Break	10 %	10 %	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	1,100,000 psi (Mpa)	7,590 MPa	ASTM D-790

Thermal Properties			
--------------------	--	--	--

DTUL @ 66 psi (455 kPa)	Deg. F	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	482 Deg. F	250.00 Deg. C	ASTM D-789-92e1

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, Uniplus, Inc. disclaims any liability for loss or damage incurred in connection with the use of this product.

Uniplus, Inc. 1145 Sutton St. Howell, MI 48843



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

## Technical Data Sheet

### LCA® N66-33GFHSL Utility Grade

#### Utility Grade Nylon 66, 33% Glass Fiber, Heat Stabilized, Lubricated

Typical Processing Conditions			
Process Variable	Description	Values	
<b>Temperatures</b>		<b>F</b>	<b>C</b>
Barrel	Rear	540 - 580	
	Center	530 - 570	
	Front	520 - 570	
	Nozzle	510 - 560	
	Mold	150 - 250	
<hr/>			
<b>Drying</b>			
Type		Dehumidifier	
Temperature		175°F	
Time		2 - 4 hours	
Max. % Moisture		0.2	
<hr/>			
<b>Special Requirements</b>			
<hr/>			

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.

Uniplas, Inc. 1145 Sutton St. Howell, MI 48843