



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

Technical Data Sheet

LCA® N66-8018 HSL Type

Nylon 66, 14% Glass Fiber, Impact Modified, Heat Stabilized, Lubricated

Typical Compound Properties	Value / Measure		Test Methods
Physical Properties			
	English Units (ISO)	Metric Units	
Density	1.19 g/cm ³	1.4 g/cm ³	ASTM D-792
Ash Content	14 %	33 %	ASTM D-5630
Linear Mold Shrinkage	in/in	mm/mm	ASTM D-955
Mechanical Properties			
Izod Impact - Notched	4.00 ft-lb/in (kJ/m ²)	214 J/m	ASTM D-256
Tensile Strength @ Yield	14,000 psi (Mpa)	97 MPa	ASTM D-638
Tensile Strength @ Break	psi (Mpa)	0 MPa	ASTM D-638
Tensile Elongation @ Yield	%	0 %	ASTM D-638
Tensile Elongation @ Break	10 %	10 %	ASTM D-638
Flexural Strength @ Yield	22,000 psi (Mpa)	152 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	550,000 psi (Mpa)	3,795 MPa	ASTM D-790
Thermal Properties			
DTUL @ 66 psi (455 kPa)	Deg. F	Deg. C	ASTM D-648
@ 264 psi (1820 kPa)	491 Deg. F	255 Deg. C	ASTM D-648
Vicat Softening Temperature	Deg. F	Deg. C	ASTM D-1525
Melt Point	491 Deg. F	255 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, 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	540 - 580	
	Center	530 - 570	
	Front	520 - 570	
	Nozzle	510 - 560	
	Mold	150 - 250	
Drying			
Type		Dehumidifier	
Temperature		175°F	
Time		2 - 4 hours	
Max. % Moisture		0.2	
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.

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