



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

Technical Data Sheet

LCA® N66-MS02.5 Natural

Nylon 66, 2.5% Molybdenum Disulfide

Typical Compound Properties	Value	Measure	Test Methods
Physical Properties			
	Minimum		
Density	1.1	g/cm ³	ASTM D-792
MoS ₂ Content	3 +/- .5	% weight	TGA
Mechanical Properties			
Tensile Strength	11,000	psi	ASTM D-638
Tensile Modulus	400,000	psi	ASTM D-638
Flexural Strength	15,000	psi	ASTM D-790
Flexural Modulus	400,000	psi	ASTM D-790
Izod Impact - Un-notched (Reverse Notch)*	12.00	ft-lb/in	ASTM D-256-10 Method E *
Compressive Strength	10,500	psi	ASTM D-695
Durometer Hardness (D Scale)	78	pts.	ASTM D-2240
Water Absorption	1.5 Max	%	ASTM D-570
Thermal Properties			
HDT @ 264 psi	65	°C	ASTM D-648
Coefficient of Linear Expansion	4.0 Max	In./In. °F	ASTMD-696

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			
Barrel	Rear	F	C
	Center	500 - 560	
	Front	510 - 560	
	Nozzle	510 - 560	
	Mold	500 - 550	
		100 - 200	
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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