



## NYCAST® SLX – PREMIUM BEARING GRADE

### Nycast® SLX is the latest innovation from Cast Nylons Limited

SLX joins the Nycast® family of premium bearing grades as an engineering and design solution for bearing and wear applications. Nycast® SLX closes the gap between static and dynamic coefficients of friction with superior performance where customers require the best material for overcoming “stick-slip” tendencies.

Unlike the competition, Cast Nylons Limited offers SLX in all our standard stock shape configurations. We never limit your design to only a few options. This is one more reason to put the Nycast® Advantage to work for you.

Manufactured with a proprietary lubrication package, Nycast® SLX is available as plate up to 4” thick, rod up to 12” diameter, and tubular bar up to 40” diameter.

#### **Applications:**

- Wear pads
- Wear guides
- Bearing blocks
- Linear bearings and bushings
- Any load-bearing slide application, especially in start/stop functions



### About Cast Nylons Limited

Cast Nylons Limited made its first casting in 1980 and has continued to grow and develop new cast nylon products for almost 30 years.

Located in Willoughby, Ohio, Cast Nylons Limited is the premier producer of cast nylon in North America and offers more than 20 standard NYCAST® grades and 35 custom formulations in nylon 6, nylon 6/12, and nylon 12.

Cast Nylons Limited offers exceptional customer service backed by an extensive inventory of superior quality cast nylon products.



**For product support or services call us at 800-543-3619 or visit our website at [www.castnylon.com](http://www.castnylon.com).**

## Material Specifications - Nycast® SLX

Property	Units	ASTM Test Method	NYCAST® SLX
Specific Gravity	g/cc	D792	1.12 – 1.14
Tensile Strength	psi	D638	10,100 - 10,200
Tensile Elongation	%	D638	38 - 47
Tensile Modulus	psi	D638	460,000
Compressive Strength	psi	D695	14,600 - 16,200
Compress Modulus	psi	D695	271,000 – 286,000
Flexural Strength	psi	D790	12,600 - 13,000
Flexural Modulus	psi	D790	364,000 - 376,000
Shear Strength	psi	D732	8,540 -8,590
Notched Izod Impact	ft.lbs./in.	D256	1.38 - 1.5
Hardness, Rockwell	R	D785	113 - 120
Hardness, Shore	D	D2240	75-84
Melting Point	deg. F	D789	430
Coefficient of Linear Thermal Expansion	in./in./deg/F	D696	4.14 - 4.17 E-5
Deformation Under Load		D621	0.51
Deflection Temperature 264 psi	deg. F	D648	158 – 162
66psi	deg. F	D648	420
Coefficient of Friction: Dynamic		D1894	0.14 - 0.19
Static		D1894	0.12 - 0.14
Water Absorption 24 hours	%	D570	.032
Saturation	%	D570	

The facts stated and recommendations contained herein are based on experiments and information believed to be reliable. No guarantee is made of the accuracy, however, and the products are sold without warranty, expressed or implied, and upon the conditions that purchaser shall conduct their own test to determine suitability for their intended use.



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