CAST NYLONS LIMITED

Discover the NYCAST® Advantage

NYCAST® SLX

NYCAST 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.

Product Data Sheet: NYCAST® SLX

Property	Units	ASTM Test Method	NYCAST® SLX
Specific Gravity	g/cm^3	D 792	1.12 - 1.14
Tensile Strength	psi	D 638	10,000 - 11,000
Tensile Elongation	%	D 638	20 - 45
Tensile Modulus	psi	D 638	400,000 - 475,000
Compressive Strength	psi	D 695	14,000 - 16,500
Compressive Modulus	psi	D 695	345,000 - 425,000
Flexural Strength	psi	D 790	13,500 - 16,000
Flexural Modulus	psi	D 790	350,000 - 475,000
Shear Strength	psi	D 732	8,000 - 9,000
Notched Izod Impact	ft.lbs/in.	D 256	1,4 - 1,8
Hardness Rockwell	R	D 785	110 - 115
Hardness, Shore	D	D 2240	74 - 80
Melting Point	°F	D 3418	430 +/- 10
Coefficient of Linear Thermal Expansion	in./in./°F	D 696	$5.0 * 10^{-5}$
Deformation Under Load	%	D 621	0.7 – 3.0
Deflection Temperature			
264 psi	°F	D 648	200 - 300
66 psi	°F	D 648	300 - 400
Continuous Service Temperature	°F	-	230
Intermittent Service Temperature	°F	-	330
Coefficient of Friction, Dynamic		D 1894	0.14
Water absorption			
24 hours	%	D 570	0.5 - 0.6
Saturation	%	D 570	4.0 - 6.0
Dielectric strength	v/mil.	D 149	500 - 600
Dielectric constant			
60 Hz		D 150	3.7
1000 Hz		D 150	3.7
1 MHz		D 150	3.7

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 purchasers shall conduct tests to determine suitability for their intended use.

Certified to ISO 9001:2008

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