

Nycast SLX

Polyamide 6

Cast Nylons Ltd.

Message:

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

General Information			
Features	Good Wear Resistance		
Uses	Bearings		
	Bushings		
	Gears		
	Rollers		
	Wear Strip		
Forms	Preformed Parts		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12 to 1.14	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.032	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113 to 120		ASTM D785
Durometer Hardness (Shore D)	75 to 84		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength	69.6 to 70.3	MPa	ASTM D638
Tensile Elongation (Break)	38 to 47	%	ASTM D638
Flexural Modulus	2510 to 2590	MPa	ASTM D790
Flexural Strength	86.9 to 89.6	MPa	ASTM D790
Compressive Modulus	1870 to 1970	MPa	ASTM D695
Compressive Strength	101 to 112	MPa	ASTM D695
Shear Strength	58.9 to 59.2	MPa	ASTM D732
Coefficient of Friction			ASTM D1894

vs. Itself - Dynamic	0.14 to 0.19		
vs. Itself - Static	0.12 to 0.14		
Deformation Under Load	0.510	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	74 to 80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	216	°C	
1.8 MPa, Unannealed	70.0 to 72.2	°C	
Melting Temperature	221	°C	
CLTE - Flow	7.5E-5	cm/cm/°C	ASTM D696

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