

Cast Nylons Nycast® SLX Premium Bearing Grade Nylon

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Nycast® SLX closes the gap between static and dynamic coefficients of friction. Used in wear pads, bearing blocks, and other load-bearing slide applications. Data provided by the manufacturer, Cast Nylons Limited.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cast-Nylons-Nycast-SLX-Premium-Bearing-Grade-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.12 - 1.14 g/cc	0.0405 - 0.0412 lb/in ³	ASTM D792
Water Absorption	0.032 %	0.032 %	24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113 - 120	113 - 120	ASTM D785
Hardness, Shore D	75 - 84	75 - 84	ASTM D2240
Tensile Strength	69.6 - 70.3 MPa	10100 - 10200 psi	ASTM D638
Elongation at Break	38 - 47 %	38 - 47 %	ASTM D638
Tensile Modulus	3.17 GPa	460 ksi	ASTM D638
Flexural Strength	86.9 - 89.6 MPa	12600 - 13000 psi	ASTM D790
Flexural Modulus	2.51 - 2.59 GPa	364 - 376 ksi	ASTM D790
Compressive Strength	101 - 112 MPa	14600 - 16200 psi	ASTM D695
Compressive Modulus	1.87 - 1.97 GPa	271 - 286 ksi	ASTM D695
Shear Strength	58.9 - 59.2 MPa	8540 - 8590 psi	ASTM D732
Izod Impact, Notched	0.737 - 0.801 J/cm	1.38 - 1.50 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.14 - 0.19	0.14 - 0.19	ASTM D1894
Coefficient of Friction, Static	0.12 - 0.14	0.12 - 0.14	ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear	74.5 - 75.1 $\mu\text{m}/\text{m}\cdot\text{°C}$	41.4 - 41.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	
Melting Point	221 °C	430 °F	
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	420 °F	ASTM D648

Thermal Properties	Metric	English	Comments
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