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Product Description

A complex blended oil lubrication system, uniformly distributed throughout the product guarantees constant performance over the whole service life of this exceptional oil-loaded nylon. Excellent sliding frictional properties, abrasion resistance and stick/ slip performance make this product a first choice for unlubricated moving parts. Its reduced coefficient of friction (-50%) and improved wear resistance (up to 10 times) make it suitable for a wide range of applications.

Applications

Nylon is used for a wide range of industrial components both for Original Equipment Manufacture and maintenance. Some examples: sleeve and slide bearings, wear pads, support and guide wheels, conveyor rollers, tension rollers, sleeves for wheels and rollers, pulleys and pulley linings, cams, buffer blocks, hammer heads, scrapers, gear wheels, sprockets, seal rings, feed screws, star wheels, cutting and chopping boards, insulators, self lubricating slides, under chain wear strips, etc.

Other Material Properties

Nycast FG Red is a material that is self lubricating in dry running applications assisted greatly with a consistent high wear performance throughout the product life.

Key Features and Benefits

- Improved Wear and Abrasion Resistance
- Excellent Thermal Properties
- Good Dimensional Stability
- Reduced Water Absorption
- Improved Load Bearing
- Excellent Mechanical Properties
- Excellent Chemical Resistance Properties

Nycast FG Red (Red Oil Filled Food Grade Cast Nylon)

Technical Data Sheet

Properties			
	Value	Unit	ASTM Test Method
Specific Gravity	1.1 – 1.17	g/cm ³	D792
Tensile Strength	65-80	MPa	D638
Tensile Elongation	>25	%	D638
Tensile Modulus	>3000	MPa	D638
Compressive Strength	13,500 – 15,000	psi	D695
Compressive Modulus	325,000 – 375,000	psi	D695
Flexural Strength	112	MPa	D790
Flexural Modulus	375,000 – 475,000	psi	D790
Shear Strength	8,000 – 9,000	psi	D732
Notched Izod Impact	>4	kJ/m ²	D256
Hardness Rockwell	83	M	D785
Hardness, Shore	74 - 80	D	D2240
Melting Point	215-220	°C	D3418
Coefficient of Linear Thermal Expansion	80-95 x 10 ⁻⁶	m/(m.K)	D696
Deformation Under Load	0.7 – 3.0	%	D621
Deflection Temperature			
264 psi	200 – 300	°F	D648
66 psi	300 – 400	°F	D648
Continuous Service Temperature	105	°C	-
Intermittent Service Temperature	165	°C	-
Coefficient of Friction, Dynamic	0.26		D1894
Water Absorption			
24 hours	0.5 - 0.8	%	D570
Saturation	4.0 – 6.7	%	D570
Dielectric Strength	500 – 600	v/mil.	D149
Dielectric Constant			
60 Hz	3.7		D150
1000 Hz	3.7		D150
1 MHz	3.7		D150
Limiting Pressure Velocity	16,000	Psi-ft/min	-

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.