

Cast Nylons Nycast® RX Solid Lubricant Filled Red Cast Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

Material Notes:

NYCAST® RX is a specially formulated, self-lubricating grade designed to deliver low coefficient of friction, superior wear resistance, high pressure/velocity performance, and low moisture absorption. Typical applications include wear pads, bearings, thrust washers, bushings, and gears. Data provided by the manufacturer, Cast Nylons Limited.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cast-Nylons-Nycast-RX-Solid-Lubricant-Filled-Red-Cast-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.14 - 1.15 g/cc	0.0412 - 0.0415 lb/in ³	ASTM D792
Water Absorption	0.40 - 0.50 %	0.40 - 0.50 %	24 hrs; ASTM D570
Water Absorption at Saturation	4.0 - 5.0 %	4.0 - 5.0 %	ASTM D570
Deformation	0.70 - 0.80 %	0.70 - 0.80 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Hardness, Shore D	78	78	ASTM D2240
Tensile Strength	65.5 - 75.8 MPa	9500 - 11000 psi	ASTM D638
Elongation at Break	45 - 50 %	45 - 50 %	ASTM D638
Tensile Modulus	2.59 - 3.28 GPa	375 - 475 ksi	ASTM D638
Flexural Strength	96.5 - 110 MPa	14000 - 16000 psi	ASTM D790
Flexural Modulus	2.59 - 3.28 GPa	375 - 475 ksi	ASTM D790
Compressive Strength	82.7 - 96.5 MPa	12000 - 14000 psi	ASTM D695
Compressive Modulus	1.90 - 2.59 GPa	275 - 375 ksi	ASTM D695
Shear Strength	55.2 - 62.1 MPa	8000 - 9000 psi	ASTM D732
Izod Impact, Notched	0.747 - 0.961 J/cm	1.40 - 1.80 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.12	0.12	ASTM D1894
Coefficient of Friction, Static	0.25 - 0.35	0.25 - 0.35	ASTM D1894

Thermal Properties	Metric	English	Comments
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CTE linear Thermal Properties	90.0 µm/m-°C Metric	50.0 µin/in-°F English	Comments
Melting Point	227 - 238 °C	440 - 460 °F	
Maximum Service Temperature, Air	110 °C	230 °F	Continuous
	166 °C	330 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	212 °C	413 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.7 °C	179 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	3.7	3.7	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	3.7	3.7	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	19.7 - 23.6 kV/mm	500 - 600 kV/in	ASTM D149

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