Nycast RX

Polyamide 6

Cast Nylons Ltd.

Message:

NYCAST® RX (Red) and NYCAST® GX (Gray) are solid lubricant filled nylon 6. Developed after years of research as an alternative to other "solid lubricated" cast nylons, RX and GX give engineers another superior choice from the NYCAST® family of premium grade cast nylons.
NYCAST® RX and GX are specially formulated, self-lubricating grades designed to:
deliver low coefficient of friction
superior wear resistance
high pressure/velocity performance
low moisture absorption
Typical applications include:
Wear pads
Bearings
Thrust washers
Bushings
Gears
Specify RX or GX for applications in industries such as:
Construction
Mining
Pulp & paper processing
Food processing
Material handling

General Information	
Additive	Lubricant
Features	Good Wear Resistance Low Friction Low Moisture Absorption Lubricated
Uses	Bearings Bushings Construction Applications Gears Mining Applications Washer Wear Strip
Appearance	Red
Forms	Preformed Parts
Processing Method	Casting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14 to 1.15	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.40 to 0.50	%	

Saturation	4.0 to 5.0	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	103		ASTM D785
Durometer Hardness (Shore D)	78		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2590 to 3280	MPa	ASTM D638
Tensile Strength	65.5 to 75.8	MPa	ASTM D638
Tensile Elongation (Break)	45 to 50	%	ASTM D638
Flexural Modulus	2590 to 3280	MPa	ASTM D790
Flexural Strength	96.5 to 110	MPa	ASTM D790
Compressive Modulus	1900 to 2590	MPa	ASTM D695
Compressive Strength	82.7 to 96.5	MPa	ASTM D695
Shear Strength	55.2 to 62.1	MPa	ASTM D732
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.12		
vs. Itself - Static	0.25 to 0.35		
Deformation Under Load	0.700 to 0.800	%	ASTM D621
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	75 to 96	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	212	°C	
1.8 MPa, Unannealed	81.7	°C	
Continuous Use Temperature	110	°C	
Melting Temperature	227 to 238	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Service Temperature - Intermittent	166	°C	

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