



Discover the NYCAST® Advantage

NYCAST® RX/ GX/ BX

NYCAST RX (red), NYCST GX (grey) and NYCST BX (black) are our solid lubricant-filled cast nylons. This material is designed to provide low coefficient of friction with superior wear resistance, making them an excellent choice for high-load, low-speed applications.

- Low coefficient of friction
- Good sliding properties at low speed
- Good wear resistance
- High young's modulus
- Easy to machine



Product Data Sheet: NYCAST® RX/ GX/ BX

Property	Units	ASTM Test Method	NYCAST® RX/ GX/ BX
Specific Gravity	g/cm ³	D 792	1.14 - 1.15
Tensile Strength	psi	D 638	10,000 - 11,000
Tensile Elongation	%	D 638	35 - 55
Tensile Modulus	psi	D 638	400,000 - 475,000
Compressive Strength	psi	D 695	13,500 - 15,000
Compressive Modulus	psi	D 695	325,000 - 375,000
Flexural Strength	psi	D 790	14,000 - 16,000
Flexural Modulus	psi	D 790	375,000 - 475,000
Shear Strength	psi	D 732	8,000 - 9,000
Notched Izod Impact	ft.lbs/in.	D 256	1.4 - 1.8
Hardness Rockwell	R	D 785	110 - 115
Hardness, Shore	D	D 2240	74 - 80
Limiting Pressure Velocity	psi-ft/min	-	16,000
Melting Point	°F	D 3418	430 +/- 10
Coefficient of Linear Thermal Expansion	in./in./°F	D 696	5.0 * 10 ⁻⁵
Deformation Under Load	%	D 621	0.7 – 3.0
Deflection Temperature			
264 psi	°F	D 648	200 - 300
66 psi	°F	D 648	300 - 400
Continuous Service Temperature	°F	-	230
Intermittent Service Temperature	°F	-	330
Coefficient of Friction, Dynamic		D 1894	0.16
Water Absorption			
24 Hours	%	D 570	0.5 - 0.6
Saturation	%	D 570	4.0 - 6.0
Dielectric Strength	v/mil.	D 149	500 - 600
Dielectric Constant			
60 Hz		D 150	3.7
1000 Hz		D 150	3.7
1 MHz		D 150	3.7

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