

Nycast GX

Polyamide 6

Cast Nylons Ltd.

Message:

NYCAST® RX (Red) & NYCAST® GX (Gray) - are solid lubricant-filled cast nylons designed to provide low coefficient of friction and superior wear resistance, making them an excellent choice in high-load, low-speed applications.

General Information			
Additive	Lubricant		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Uses	Automotive Applications		
	Bearings		
	Bushings		
	Construction Applications		
	Marine Applications		
	Mining Applications		
	Seals		
	Textile Applications		
	Wear Strip		
Appearance	Grey		
Forms	Preformed Parts		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14 to 1.15	g/cm ³	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)	115 to 125		ASTM D785
Durometer Hardness (Shore D)	78 to 83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2590 to 3960	MPa	ASTM D638
Tensile Strength	72.4 to 79.3	MPa	ASTM D638
Tensile Elongation (Break)	35 to 55	%	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 (vs. Itself - Dynamic)	0.12		ASTM D1894
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	210 to 216	°C	
1.8 MPa, Unannealed	79.4 to 85.0	°C	
Continuous Use Temperature	110	°C	ASTM D794
Melting Temperature	227 to 238	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Service Temperature - Intermittent	166	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20 to 24	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.70		
1 kHz	3.70		
100 kHz	3.70		

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