



Discover the NYCAST® Advantage

NYCAST® 6PA XHA blue

CAST NYLONS LIMITED offers a heat stabilized cast nylon 6. The heat stabilizer retards the loss of physical properties as temperature increases. This allows the material to function at approximately 10% higher temperatures than standard grades; meaning NYCAST XHA operating at 200°F (93°C) will have approximately the same physical properties as a standard material at 185°F (85°C). This material has delivered successful performance throughout the years.



The main advantages of NYCAST XHA blue are:

- Can work at higher operating temperatures
- Retains physical properties under higher temperatures
- Light weight
- Excellent abrasion and wear resistance
- Easy to machine

Also available in natural, black and forest green

Product Data Sheet: NYCAST® 6PA XHA blue

Property	Units	ASTM Test Method	NYCAST® XHA blue
Specific Gravity	g/cm ³	D 792	1.15 - 1.17
Tensile Strength	psi	D 638	10,000 - 13,500
Tensile Elongation	%	D 638	20 - 30
Tensile Modulus	psi	D 638	450,000 - 550,000
Compressive Strength	psi	D 695	13,500 - 16,000
Compressive Modulus	psi	D 695	325,000 - 400,000
Flexural Strength	psi	D 790	15,000 - 17,500
Flexural Modulus	psi	D 790	420,000 - 500,000
Shear Strength	psi	D 732	10,000 - 11,000
Notched Izod Impact	ft.lbs/in.	D 256	1,0 - 2,5
Hardness Rockwell	R	D 785	110 - 120
Hardness, Shore	D	D 2240	78 - 86
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	0.5 – 2.6
Deflection Temperature			
264 psi	°F	D 648	200 - 400
66 psi	°F	D 648	300 - 450
Continuous service temperature	°F	-	250
Intermittent Service Temperature	°F	-	350
Coefficient of friction, dynamic		D 1894	0.26
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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