

CAST NYLONS LIMITED

Discover the NYCAST® Advantage

NYCAST® 6PA MP (MPB) Blue (MPY) Yellow

Designed to address the problems associated with impact loads, NYCAST 6MP formulations provide performance advantages in applications that require improved impact properties over standard grades. NYCAST 6MP cushion pads protect the hammer from metal-to-metal damage in pile drivers and provide many performance advantages in certain gear, die block, valve seat and other applications.

This formulation also provides superior performance in extreme cold temperature applications, where standard grades are prone to impact failure.

- High impact resistance
- High tensile elongation
- Resistance to brittleness and deterioration
- Can work under low temperature circumstances
- Noise dampening



NYCAST® 6PA MPB, MPY Product Specifications

Property	Units	ASTM Test Method	NYCAST® 6PA MPB, MPY
Specific Gravity	g/cm ³	D 792	1.14 - 1.16
Tensile Strength	psi	D 638	9,000 - 11,000
Tensile Elongation	%	D 638	25 - 35
Tensile Modulus	psi	D 638	375,000 - 475,000
Compressive Strength	psi	D 695	12,500 - 15,000
Compressive Modulus	psi	D 695	300,000 - 375,000
Flexural Strength	psi	D 790	12,000 - 13,000
Flexural Modulus	psi	D 790	300,000 - 360,000
Shear Strength	psi	D 732	7,500 - 10,000
Notched Izod Impact	ft.lbs/in.	D 256	2.5 - 6.0
Hardness Rockwell	R	D 785	95 - 110
Hardness, Shore	D	D 2240	70 - 80
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	1.0 - 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	0.26
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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