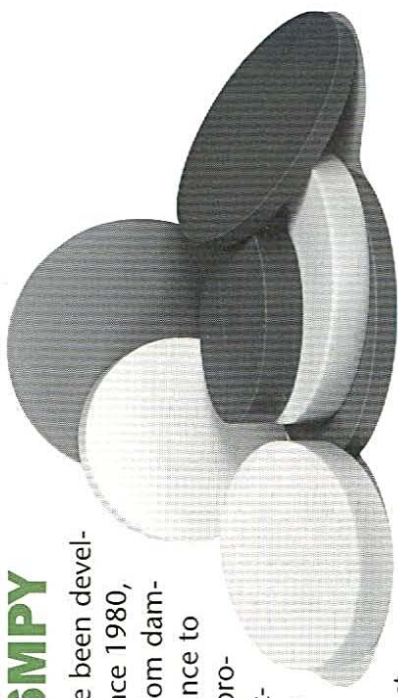


NYCAST® 6MPB & NYCAST® 6MPY

A plasticized Cast Nylon 6, NYCAST 6MPB and 6MPY have been developed for use as pile driver caps or cushion pads. In use since 1980, NYCAST 6MPB and 6MPY successfully protect hammers from damage caused by metal-to-metal contact and improve resistance to brittle failures. They have been specifically formulated to provide a better cushioning effect under impact than competitive standard cast nylons. NYCAST 6MPB and 6MPY have also provided exceptional performance advantages in gears, die blocks, valve seats, and other applications that may require higher elongation and improved tensile impact over the standard nylon grades.



PROPERTY	UNITS	TEST METHOD	NYCAST 6MPB NYCAST 6MPY
Specific Gravity	-	ASTM D792	1.14 - 1.16
Tensile Strength	psi	ASTM D638	9,700-10,800
Tensile Elongation	%	ASTM D638	25-35
Tensile Modulus	psi	ASTM D638	375,000-440,000
Compressive Strength (at 1% offset)	psi	ASTM D695	12,500-15,100
Compressive Modulus	psi	ASTM D695	280,000-345,000
Flexural Strength	psi	ASTM D790	12,000-13,000
Flexural Modulus	psi	ASTM D790	330,000-350,000
Shear Strength	psi	ASTM D732	10,000-11,000
Tensile Impact	ft. lbs./in ²	ASTM D1822	105-115
Notched Izod Impact	ft. lbs./in.	ASTM D256	.820-.910
Hardness, Rockwell	R	ASTM D785	110-115
Durometer, Shore D	D	ASTM D676	76-78
Melting Point	deg. F	ASTM D789	450+/-10
Coef. of Linear Thermal Exp.	in./in./deg. F	ASTM D696	5.0 x 10 ⁻⁵
Deformation under Load (122 deg F, 2000 psi)	%	ASTM D621	1.0-2.0
Deflection Temperature			
264 psi	deg. F	ASTM D648	200-400
66 psi	deg. F	ASTM D648	400-430
Continuous Service Temperature in Air	deg. F	-	230
Intermittent Service Temperature	deg. F	-	330
Water Absorption	%	ASTM D570	0.5-0.6
24 Hours	%	ASTM D570	5.0-6.0
Full Saturation	%	-	.910
Coefficient of Restitution	-	-	-

AVAILABILITY:

Plates:

1/4" - 4" thick;
24"w x 48" long
28"w x 57" long
36"w x 48" long

Rods:

1" Diam. - 12" Diam.;
12", 24", and 48" lengths

Tubular Bar:

2" OD - 40" OD;
1/4" to 4" wall;
13", 26" and 39" lengths

Discs:

From 11" OD to 60" OD;
1" to 6" thicknesses

Rings:

Available on Request

Custom Castings:

Available on Request

COLOR: 6MPB = BLUE

6MPY = YELLOW

MINIMUM ORDER = 100 POUNDS

The facts stated and the recommendations contained herein are based on experiments and information believed to be reliable. No guarantee is made of their accuracy, however, and the products are sold without warranty, express or implied, and upon the conditions that purchasers shall conduct their own tests to determine suitability for their intended use.