



Gantiel Vensott Pty. Ltd.

## Nycast® 6PA MP—(MPB)blue, (MPY)yellow

### TECHNICAL DATA SHEET:



### Nycast® 6PA MP Product Description

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.

Property	Method of verification	Unit	Value
Specific Gravity	D792	g/cm <sup>3</sup>	1.14—1.16
Tensile Strength	D638	psi	9,000—11,000
Tensile Elongation	D638	%	25-35
Tensile Modulus	D638	psi	375,000-475,000
Compressive Strength	D695	psi	12,500-15,000
Compressive Modulus	D695	psi	300,000-375,000
Flexural Strength	D790	psi	12,000-13,000
Flexural Modulus	D790	psi	300,000-360,000
Shear Strength	D732	psi	7,500-10,000
Notched Izod impact	D256	ft.lbs/in.	2.5-6.0
Hardness Rockwell	D785	R	95-110
Hardness Shore	D2240	D	70-80
Melting Point	D3418	°F	430 +/- 10
Coefficient of linear Thermal Expansion	D696	in./in./°F	5.0 x 10 <sup>-5</sup>
Deformation under load	D621	%	1.0-3.0
Deflection Temperature 264 psi	D648	°F	200—300
66 psi	D648	°F	300—400
Continuous Service Temperature	-	°F	230
Intermittent Service Temperature	-	°F	330
Coefficient of Friction: Dynamic	D1894	-	0.26
Water Absorption 24 Hours	D570	%	0.5—0.6
Saturation	D570	%	4.0—6.0
Dielectric Strength	D149	v/mil.	500—600
Dielectric Constant 60 Hz	D150		3.7
1000 Hz	D150		3.7
1 MHz	D150		3.7

### Nycast® 6PA MP Applications

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.



### Other Material Properties

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

### Nycast® 6PA MP Delivery Program

It is a specialty product and is cast to order and also available in NNC— (Near Net Casting).

Available in Rod / Sheet / Heavy Wall Tube / Disc.

### Key Features and Benefits:

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



Gantiel Vensott Pty. Ltd. — Engineering Plastic Solutions —

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