

NYLATECH TYPE 6 MONOMER CAST NYLON  
**GENERAL PHYSICAL PROPERTIES**

Product Information For:  
NYLATECH® Super Black

Specific Gravity	1.14	g/cm <sup>3</sup>
Tensile Strength	10,000	(psi)
Compressive Strength @ 10% Deflection	14,000 - 15,000	(psi)
Elongation	35 - 40	%
Tensile Modulus	435,000	(psi)
Tensile Impact	80 - 130	ft. lb/sq in.
Flexural Strength	13,000	(psi)
Flexural Modulus	350,000	(psi)
Coefficient of Friction	.17 - .19	(dry vs. Steel)
24 Hour H <sub>2</sub> O	.3	%
Equilibrium H <sub>2</sub> O	1 - 2.8	%
Hardness	80	(Scale D)
Coefficient of Thermal Expansion	5.5 x 10 <sup>-5</sup>	in./in./F
Continuous Operating Temp	240 - 280	Degrees F

All NYLATECH Material is certified to conform with ASTM - D5989 Specification.

NYLATECH Natural meets requirements for 21 CFR 177.1500 of the U.S. FDA.

Above values are intended for guidance to material selection only. As with any new application, NYLATECH recommends testing in actual application prior to specification.

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