

NYLATECH TYPE MONOMER CAST NYLON
GENERAL PHYSICAL PROPERTIES

Product Information For:
NYLATECH® IRG Nylon

Specific Gravity	1.14	g/cm ³
Tensile Strength	8,900 - 11,000	(psi)
Compressive Strength @ 10% Deflection (psi)	12,000 – 13,000	
Elongation	40 - 70	%
Tensile Modulus	400,000	(psi)
Notched Izod Impact	1.83 – 2.74	ft. lbs./ in.
Flexural Strength	16,300	(psi)
Flexural Modulus	350,000	(psi)
Coefficient of Friction	.30 - .40	(dry vs. Steel)
24 Hour H ₂ O	.5	%
Equilibrium H ₂ O	2 – 5.5	%
Hardness	76	(Scale D)
Coefficient of Thermal Expansion	5.5 x 10 ⁽⁻⁵⁾	in./in./F
Continuous Operating Temp	250 - 270	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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