

DATA SHEET

NYLON 6/12

PHYSICAL

SPECIFIC GRAVITY	1.06
WATER ABSORPTION, 24 hr. (%)	.25

MECHANICAL

TENSILE

Strength, Yield (10 ³ psi) @ 73°F.	13.6
Elongation, Ultimate (%) @ 73°F.	150
Modulus, Yield (10 ³ psi) @ 73°F.	290

FLEXURAL

Strength, (10 ³ psi) @ 73°F.	
Modulus, Yield (10 ³ psi) @ 73°F.	295

COMPRESSIVE STRENGTH

2% Offset, (10 ³ psi)	2.4
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IMPACT STRENGTH

Izod, Notched (ft. - lb./in.) @ 73°F.	1.0
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HARDNESS

R114

COEFFICIENT OF STATIC FRICTION

Against self	
Against steel	0.24

THERMAL

CONDUCTIVITY

(BTU/hr/sq. ft./Degree F./in.)	1.5
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COEFF. OF THERMAL EXPANSION

(10 ⁻⁵ /Degree F.)	5.0
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SPECIFIC HEAT

(BTU/lb./Degree F.)	0.4
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At 66 psi.	356
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At 264 psi	194
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MAX. CONTINUOUS TEMP. (F.°)

350

ELECTRICAL

VOLUME RESISTIVITY

(Ohm/cm)	10 ¹⁵
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DIELECTRIC STRENGTH

(V/Mil)

DIELECTRIC CONSTANT

At 60 HZ	4.0
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At 1 MHZ	3.5
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DISSIPATION FACTOR

At 60 HZ	.020
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At 1 MHZ	.020
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ARC RESISTANCE (seconds)



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