

## DATA SHEET

# NYLON CAST

### PHYSICAL

SPECIFIC GRAVITY	1.15
WATER ABSORPTION, 24 hr. (%)	.55

### MECHANICAL

#### TENSILE

Strength, Yield (10 <sup>3</sup> psi) @ 73°F.	13.0
Elongation, Ultimate (%) @ 73°F.	4
Modulus, Yield (10 <sup>3</sup> psi) @ 73°F.	480

#### FLEXURAL

Strength, (10 <sup>3</sup> psi) @ 73°F.	7.0 - 17.5
Modulus, Yield (10 <sup>3</sup> psi) @ 73°F.	110 - 450

#### COMPRESSIVE STRENGTH

2% Offset, (10<sup>3</sup> psi)

#### IMPACT STRENGTH

Izod, Notched (ft. - lb./in.) @ 73°F.	1.2
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#### HARDNESS

M88

#### COEFFICIENT OF STATIC FRICTION

Against self

Against steel	0.25
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### THERMAL

#### CONDUCTIVITY

(BTU/hr/sq. ft./Degree F./in.)

#### COEFF. OF THERMAL EXPANSION

(10 <sup>-5</sup> /Degree F.)	4.4
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#### SPECIFIC HEAT

(BTU/lb./Degree F.)	0.035
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(Degree F.)

At 66 psi.	370
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At 264 psi	180
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#### MAX. CONTINUOUS TEMP. (F.°)

### ELECTRICAL

#### VOLUME RESISTIVITY

(Ohm/cm)	>10 <sup>14</sup>
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#### DIELECTRIC STRENGTH

(V/Mil)	1500
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#### DIELECTRIC CONSTANT

At 60 HZ	4.0
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At 1 MHZ	3.6
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#### DISSIPATION FACTOR

At 60 HZ	.025
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At 1 MHZ	.030
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### ARC RESISTANCE (seconds)



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