

DATA SHEET

NYLON 6/6

<b>PHYSICAL</b>	
SPECIFIC GRAVITY	1.14
WATER ABSORPTION, 24 hr. (%)	.60 - 1.2
<b>MECHANICAL</b>	
<b>TENSILE</b>	
Strength, Yield (10 <sup>3</sup> psi) @ 73°F.	12 - 12.3
Elongation, Ultimate (%) @ 73°F.	4 - 6
Modulus, Yield (10 <sup>3</sup> psi) @ 73°F.	230
<b>FLEXURAL</b>	
Strength, (10 <sup>3</sup> psi) @ 73°F.	17.0
Modulus, Yield (10 <sup>3</sup> psi) @ 73°F.	410 - 420
<b>COMPRESSIVE STRENGTH</b>	
2% Offset, (10 <sup>3</sup> psi)	
<b>IMPACT STRENGTH</b>	
Izod, Notched (ft. - lb./in.) @ 73°F.	.55 - 1.0
<b>HARDNESS</b>	R120
<b>COEFFICIENT OF STATIC FRICTION</b>	
Against self	0.06
Against steel	0.20
<b>THERMAL</b>	
<b>CONDUCTIVITY</b>	
(BTU/hr/sq. ft./Degree F./in.)	1.5 - 1.7
<b>COEFF. OF THERMAL EXPANSION</b>	
(10 <sup>-5</sup> /Degree F.)	4.0 - 4.4
<b>SPECIFIC HEAT</b>	
(BTU/lb./Degree F.)	0.3 - 0.4
<b>HEAT DEFLECTION TEMP.</b>	
(Degree F.)	
At 66 psi.	410 - 455
At 264 psi	194 - 200
<b>MAX. CONTINUOUS TEMP. (F.°)</b>	220
<b>ELECTRICAL</b>	
<b>VOLUME RESISTIVITY</b>	
(Ohm/cm)	>10 <sup>15</sup>
<b>DIELECTRIC STRENGTH</b>	
(V/Mil)	1500
<b>DIELECTRIC CONSTANT</b>	
At 60 HZ	4.0
At 1 MHZ	3.6
<b>DISSIPATION FACTOR</b>	
At 60 HZ	.01 - .014
At 1 MHZ	.02 - .04
<b>ARC RESISTANCE (seconds)</b>	120