



Cellusuede Products. Inc.

PHYSICAL AND CHEMICAL PROPERTIES

NYLON 6,6

| Breaking Tenacity | Dry Wet | 2.9 - 7.2 $2.5 - 6.1$ |
|----------------------------------|--|-----------------------|
| Tensile Strength (psi) | | 40,000 – 106,000 |
| Breaking Elongation (%) | Dry Wet | 16 - 75 18 - 78 |
| Elastic Recovery (%) | | 82 at 3% |
| Average Stiffness (gpd) | | 10 - 45 |
| Average Toughness (g/cm) | | 0.58 - 1.37 |
| Specific Gravity | | 1.13 – 1.14 |
| Water Absorbency (%) | 21°C/70°F, 65% RH 21°C/70°F, 95% RH | 4.0 - 4.5 $6.1 - 8.0$ |
| Effect of Heat | Sticks at 230°C/445°F. Melts at 249-260°C/480–500°F. Yellows slightly at 149°C/300° when held for 5 hours. | |
| Effects of Acids and Alkalis | Unaffected by most mineral acids, except hot mineral acids. Dissolves with partial decomposition in concentrated solutions of hydrochloric, sulfuric and nitric acids. Soluble in formic acid. Substantially inert in alkalis. | |
| Effects of Bleaches and Solvents | Can be bleached in most bleaching solutions. Generally insoluble in most organic solvents. Soluble in some phenolic compounds. | |
| Resistance to Mildew, Aging, | Excellent resistance to mildew, aging and abrasion. Prolonged exposure to sunlight causes some degradation. | |

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