



Kraft Insulation

WINDSOR - STEVENS, INC.

An Employee Owned Company

Kraft Insulation

General Description

Kraft Insulation is produced in multi-layer form on a modified wet machine from an electrical grade, unbleached Kraft wood pulp. The dry finished sheets contain no sizing, coloring or other materials which would contaminate natural or synthetic impregnating oils.

Kraft Insulation is used as transformer layer insulation, capacitor can liner and in numerous other applications where the ultimate in electrical and physical strengths are required.

Kraft Insulation is available in sheets, strips, mill rolls and slit rolls in thicknesses from .007" to .062". Above .062" to .250" is available only in sheets and strips. Above .040" thickness Kraft is laminated from dry sheets with a polyvinyl-acetate-polyvinyl alcohol formulation having good electrical properties.

PHYSICAL, ELECTRICAL AND CHEMICAL PROPERTIES:

| | |
|--|---------------------------------|
| Fiber Content | 100% Unbleached Kraft Wood Pulp |
| Ash Content (Max.) | .75% |
| pH Water Extract | 6.0 - 7.5 |
| Moisture Content | 7.0% Avg. |
| Chlorides | 8 - 16 ppm |
| Water Extract Conductivity Microhms/cm | 7.5 Avg. |

| Standard Thick-ness, $\pm 7\%$ | Inches | .007 | .010 | .015 | .020 | .025 | .031 | .040 |
|---|---------------|------|------|------|------|------|------|------|
| Apparent Density, (Air Dry), $\pm 7\%$ | g/cc | 1.00 | 1.00 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| Weight, (Air Dry), $\pm 7\%$ | lbs./sq. ft. | .036 | .052 | .078 | .109 | .136 | .169 | .216 |
| Tensile Strength, (Avg.) | MD lbs./ In. | 135 | 195 | 340 | 500 | 575 | 700 | 800 |
| | CMD lbs./ In. | 25 | 50 | 75 | 85 | 115 | 140 | 160 |
| Burst Strength, (Avg.) | lbs./sq. in. | 120 | 185 | 320 | 440 | 510 | 580 | 625 |
| Tear Strength, (Avg.) grams | MD | 180 | 270 | 475 | 650 | 875 | 1000 | |
| | CMD | 300 | 450 | 800 | 975 | 1100 | 1200 | |
| Dielectric Strength, (Avg.) grams AC, 25°C (Avg.) | volts/mil | 250 | 250 | 250 | 250 | 250 | 250 | 250 |

"Values shown are typical, are not guaranteed, nor to be used for specifications without approval."

NOTICE: The above information and data are believed to be accurate and reliable. Windsor-Stevens assumes no responsibility for end-use applications and no performance warranty is expressed or implied.

WINDSOR - STEVENS, INC. TEL: 860-683-1515 FAX: 860-683-1558 P.O. BOX 500 POQUONOCK, CT. 06064