



KRAFT - TU
Material Data Sheet
 Revision 2/24/05

Item:

Kraft Thermally Upgraded, Electrical Insulating Paper

Description:

Cottrell Kraft-TU - This material is made from 100% virgin fiber electrical Kraft pulp. The stock is extensively cleaned and specially refined to insure maximum purity and physical strength. No sizing, clay, or fillers are used in the production of this sheet. The Kraft paper is thermally upgraded to provide additional properties to suit the customer's needs.

Our Kraft's are produced on a multi-ply cylinder machine, this technique allows for more bonds to form along the surface areas between plies in addition to fiber-to-fiber bonding in the machine direction. The resultant product exhibits outstanding physical strengths, which includes excellent elongation, which allows the paper to stretch without breaking. This proves especially beneficial in the fabrication of the .030" to .060" thickness, where the material must be rigid while still maintaining sufficient elongation to avoid tearing at the folds.

Application:

Cottrell Kraft-TU is widely used for coil winding, barrier, core and layer insulation in transformers. It is also used in motors and other electrical applications where high dielectric and physical strengths are required

Kraft-TU is available from .002" to .060" in rolls, sheets, or coils slit to your specifications.

Typical Test Values:

Thickness +/- 10%	Tear	Tear	Tensile	Tensile	Elongation	Elongation
	(g) MD	(g) CD	(psi) MD	(psi) CD	% MD	% CD
.003	57	65	11,096	10,548	1.5	4.5
.005	116	149	15,685	8,470	1.3	9.1
.007	134	197	17,873	6,913	2.3	7.5
.010	330	330	13,900	8,450	3.0	9.0
.015	495	540	13,754	6,411	2.7	4.6
.030-.060"	Call For Details					

Dielectric: Greater than 250 volts per mil minimum (350vpm typical)
 Methanol Extractables: 0.15 - 0.20%
 Nitrogen Content: 2 - 4 %
 Density: Cal.: .90 - 1.05 g/cm³ Regular: 1.0 - 1.15 05 g/cm³
 PH: 6.5 - 7.5
 Ash Content: < 0.75 %
 Moisture Content: 4 - 7 %

- These figures are typical values only and do not constitute a specification.
- Current specifications for all materials are always available on request.
- Cottrell Paper Company's continuous improvement efforts may lead to changes in the above data

Please call us toll free at 1-800-948-3559

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