

Material Data Sheet

Item: COPACO, Electrical Insulating Paper

Description: COPACO electrical insulating papers are 100% Rag Stock papers expressly designed for the most exacting electrical users. They are manufactured from high grade new cotton cuttings, highly refined to insure maximum chemical purity and physical strength.

No sizing, clay, fillers, or other chemical additives are used in COPACO. The absence of impurities, plus the use of high grade cotton cuttings, guarantee that COPACO's aging characteristics will meet the most exacting requirements.

Application: COPACO is available in continuous rolls, sheets, or in coils slit to your specifications. Standard rolls are 30" wide; standard sheets are 30" x 40". Other sheet and roll widths will be furnished upon application. COPACO papers are commonly manufactured in thicknesses from .004" to .030".

In order to insure maximum adhesion, heavier thicknesses are given a 100% chemically pure resin bond under exacting control methods to meet the critical purity requirements of hermetic motors.

<u>Thickness</u>	<u>Cross Tear</u>	<u>Machine Tear</u>
.005"	220	180
.007"	380	180
.010"	700	180
.012"	900	180
.015"	1200	180
.020"	1700	180
.025"	2200	180

Typical Values:

Machine Tensile
Cross Tensile
Machine Elongation
Cross Elongation
Dielectric
Methanol Extractables
Density (1.25 - 1.35)

COPACO:

16,000 lbs/sq. in.
6,000 lbs/sq. in.
6 - 8%
14 - 16%
300 volts per mil
0.15 - 0.20%
pH. 7

Material Data Sheet

Item: COPACO - 125, Super Stretch Electrical Insulating Paper

Description: COPACO - 125 Super Stretch electrical insulating papers are manufactured under an extensible paper process which provides COPACO - 125 with twice the stretch of ordinary electrical insulating papers.

This unusual elongation permits COPACO - 125 to stretch and adjust when subjected to extreme stress. The high tear resistance will virtually eliminate torn or split insulators when used under standard practices.

Application: COPACO - 125 Super Stretch has higher Elmendorf tear values than regular electrical insulating papers....as much as 20% in the cross machine direction. The extensible paper process is entirely mechanical and in no way affects the high purity or chemical qualities of COPACO - 125.

COPACO - 125 is 100% rag stock paper manufactured from high grade cotton cuttings, highly refined to insure maximum chemical purity and physical strength.

<u>Thickness</u>	<u>Cross Tear</u>	<u>Machine Tear</u>
.005"	350	200
.007"	560	320
.010"	900	600
.012"	1100	750
.015"	1500	950
.020"	2000	1550
.025"	2500	1750

Typical Values:

COPACO - 125:

Machine Tensile	11,000 lbs/sq. in.
Cross Tensile	6,000 lbs/sq. in.
Machine Elongation	16 - 20%
Cross Elongation	14 - 20%
Dielectric	300 volts per mil
Methanol Extractables	0.15 - 0.20%
Density (1.25 - 1.35)	pH. 7