



COPACO

Material Data Sheet

Item:

COPACO, Electrical Insulating Paper 105° C.

Description:

COPACO is a very robust electrical insulation presspaper with extremely high tensile, tear, burst and dielectric properties. It is normally supplied with a high density, very smooth “Glazed Roll” finish which eases the insertion into slot cells, and provides excellent abrasion resistance. The product is well suited to be punched, formed or creased.

COPACO electrical insulating papers are manufactured from only high-grade new denim cuttings, the stock is extensively cleaned and specially refined to insure maximum purity and physical strength. No sizing, clay, fillers, or other chemical additives are used in COPACO. The absence of impurities ensures that COPACO's aging characteristics will meet the most exacting requirements.

Application:

COPACO papers are used extensively for slot cell liners in armatures, slot cell liners and phase insulation in the stators of fractional hp motors. Other applications would include core and layer insulation in transformers. In many other devices it is used for washers, gaskets, shielding and barrier insulation.

COPACO is available from .003" to .060" in rolls, sheets, or coils slit to your specifications.

Typical Test Values:

| Thickness +/- 10% | Tear (g) MD | Tear (g) CD | Tensile (psi) MD | Tensile (psi) CD | Elongation % MD | Elongation % CD |
|----------------------|-------------------|-------------------|------------------------|------------------------|-----------------------|-----------------------|
| .003 | 125 | 130 | 10,500 | 9,500 | 7.7 | 7.5 |
| .005" | 179 | 215 | 15,000 | 6,100 | 10.5 | 8.5 |
| .007" | 250 | 375 | 13,000 | 6,300 | 12.0 | 10.8 |
| .010" | 472 | 597 | 11,000 | 6,200 | 12.5 | 12.0 |
| .012" | 642 | 737 | 12,000 | 8,000 | 12.0 | 12.0 |
| .015" | 805 | 1047 | 14,000 | 7,500 | 12.0 | 14.1 |
| .030" | 1700+ | 1300+ | | | | |

Dielectric: Greater than 300 volts per mil minimum (450vpm typical)
Methanol Extractables: 0.15 - 0.20%
Density: 1.15 - 1.30g/cm³
PH 7.0

- 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

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