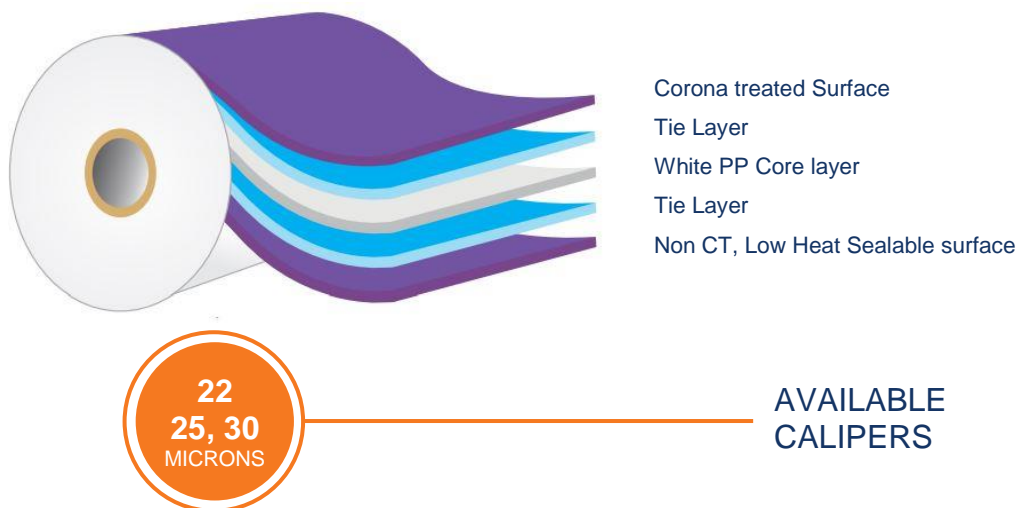


PROVISIONAL

WDSTILS-N-CPP

WHITE OPAQUE HEAT SEALABLE, HIGH HOT TACK HIGH HEAT SEAL STRENGTH ONE SIDE CORONA TREATED CPP FILM FOR CONVERSION



DESCRIPTION

It is a co-extruded white cast polypropylene film with one side corona treatment and other side is low seal initiation temperature (SIT ~ 90°C). Especially designed for high speed packaging where its wide seal operating window can be used on high speed machines.

PRODUCT FEATURES

- Wide sealing range with low seal initiation temperature (SIT ~ 90°C)
- Solid White appearance
- Excellent sealing properties in term of strength, hot-tack and integrity
- Remarkable performances on HFFS & VFFS machines
- Excellent surface gloss & opacity
- Good Processability
- Good Moisture Barrier

APPLICATIONS

- Suitable for use in multilayer laminate
- Frozen food & Noodles
- Confectionary (chocolate/gum/sugar)
- Bakery (Biscuits/cookie/crackers)
- Household and detergents
- Health and beauty care

NOMENCLATURE

WDSTILS-N-CPP... Wetting tension Surface Inside, Heal Seal Surface Outside
WDSTOLS-N-CPP...Wetting tension Surface Outside, Heal Seal Surface Inside

TOPPAN SPECIALITY FILMS

PROVISIONAL

| | PROPERTIES | POSITION | WDS22TILS -N-CPP | WDS25TILS -N-CPP | WDS30TILS -N-CPP | UNITS | TEST METHOD |
|------------|--------------------------------|------------|---------------------|---------------------|---------------------|--------------------|---|
| GENERAL | Nominal Thickness | - | 22 | 25 | 30 | μ | Internal Method |
| | Density | - | 0.95 | 0.95 | 0.95 | g/cc | Internal Method |
| | GSM | - | 20.9 | 23.75 | 28.5 | g/m ² | Internal Method |
| | Yield | - | 47.8 | 42.1 | 35.1 | m ² /kg | Internal Method |
| OPTICAL | Opacity | - | | 65 | | % | Internal Method |
| | Gloss | - | | 75 | | GU | ASTM D 2457 |
| SURFACE | Dynamic COF | UT / UT | | 0.50 – 0.70 | | - | Internal Method |
| | Wetting Tension | - | | 38* | | dy/cm | ASTM D 2578 |
| MECHANICAL | Tensile Strength (at break) | -MD -TD | | 500 250 | | kg/cm ² | ASTM D 882 |
| | Elongation (at break) | -MD -TD | | 500 650 | | % | ASTM D 882 |
| | SIT | - | | 90 | | % | ASTM D 1204 |
| THERMAL | Heat Seal Strength | - | 2000 | 2200 | 2200 | °C | Internal Method |
| | | | | | | g/in | Internal Method (130°C/0.5sec/30psi) |

* 38 dyne/cm guaranteed for 3 months from the invoice date in controlled ambient condition as mentioned in storage guidelines

The figures and above properties refer to typical values which are indicative only. Customers should verify the suitability of the film for its specific end use. Therefore this document will not represent a product specification.

GUIDELINES FOR STORAGE

Temperature should preferably be less than 30°C & humidity 55±5% in storage areas and material should be consumed within three months of receipt. CPP films should be allowed to reach operating room temperature 24 hours before use

FOOD CONTACT

CPP films complies with the requirements of FDA, EC & REACH regulations. Specific documentation is available on request.

SAFETY

Compliance with industrial health and safety standards. CPP films do not present any significant danger to health and safety in the workplace, provided they are used for the intended purpose in accordance with conventional practices and that health & safety regulations are observed. Relevant guidelines can be found in our MSDS (available upon request).

CAUTIONS

- Film characteristics are maintained for six months from the date of invoicing except wetting tension