

CF-120 (Conformable sheet)

Product description

CF-120 is a conformable sheet, which will be used for manufacture flexible and rigid-flex printed circuit boards. CF-120 consists of three layers. The core is made of Polypropylene (PP). This core is covered with a special release film on both sides. The release film is based on TPX without any coating. At a certain temperature the thermoplastic PP-core starts to soften. Then the product covers any contour (e.g. circuitry) and guarantees a homogeneous pressure distribution.



Application

CF-120 is used in the PCB manufacturing process for balancing differences of level, which leads to a homogeneous pressure distribution. Some examples ...

- laminating of coverlays on flexible circuits
- manufacture of flexible multilayers with bond plies
- manufacture of rigid-flex printed circuit boards with standard and low flow prepreg

Suitable for press cycles with and without vacuum

Good control of resin flow

The release film at the outside guarantees good release properties and protects sensitive surfaces against foreign particles

Compatible with kraft paper, press pads, steel plates, copper foil, PI films ...

Good handling properties

Process parameter (hydraulic press)

Temperature: up to 200 °C

Pressure: 100-300 N/cm² (10-30 bar)

Material properties

Thickness: 120 µm (PP-core 70 µm)

Density: 0.90 g/cm³ (PP-core)

Melting point: 160 °C (PP-core)

Dimension stability: 200 ppm/°C (PP-core)

Softening temp. (Vicat): around 90 °C (PP-core)

Color: colorless, mat

Storage & handling

Temperature: 15 – 25 °C

Humidity: 45 – 65 rh%

Storage: flat in original package until usage.

Availability

Thickness: 120 µm

Rolls: rolls available

Sheets: size and punching according customer specification

The typical values are based on data from production and from sample measurements in the lab. This data should be considered as general information. It is the responsibility of the user to ensure that the product complies with his requirements.

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