

## UTF-300 (Conformable sheet)

### Product description

UTF-300 is a conformable sheet, which will be used for manufacture flexible and rigid-flex printed circuit boards. UTF-300 consists of three layers. The core is made of Polyethylene (PE). This core is covered with UTF-100 film on both sides. At a certain temperature the thermoplastic PE-core starts to soften. Then the product covers any contour (e.g. circuitry) and guarantees a homogeneous pressure distribution.



### Application

UTF-300 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 outer layers of UTF-100 guarantee good release properties and protect 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 180-190 °C

Pressure: 100-300 N/cm<sup>2</sup> (10-30 bar)

### Material properties

Thickness: 300 µm (PE-core 250 µm)

Density: 0.95 g/cm<sup>3</sup> (PE-core)

Melting point: 145 °C (PE-core)

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

Softening point: around 135 °C (PE-core)

Color: colorless, mat

### Storage & handling

Temperature: 15 – 25 °C

Humidity: 45 – 55 rh%

Storage: flat in original package until usage.  
electrostatic discharge will be reduced, if stored as recommended

### Availability

Thickness: 300 µm

Rolls: no rolls

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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