

HPI-100 (Release film)



Product description

HPI-100 is a release film specially developed for high temperature applications. It is based on a polyimide film with certain anti-adhesive properties, which are not achieved by conventional coating. Instead there is a special process applied, which modifies the surface of the film and forms a very thin ($< 1 \mu\text{m}$) anti-adhesive layer. HPI-100 is of course free of silicone and other volatiles. It does not contaminate the surface of products/materials, which are in contact with the film.

Application

Pressing / processing of materials, which need very high temperatures up to around 350°C . For example prepreps with polyimide, cyanate ester, BT resins, but also PTFE skives. Ideally used together with our high temperature resistant press pad Thermo-H40.

Process parameter (hydraulic press)

Temperature: $\approx 350^\circ\text{C}$
Pressure: $100 - 500 \text{ N/cm}^2$ (10 – 50 bar)

Material properties

Thickness:	25 μm
Density:	1.42 g/cm^3
Surface weight:	39 g/m^2
Tensile Strength:	230 N/mm^2 (MD) / 230 N/mm^2 (TD)
Elongation:	70 % (MD) / 70 % (TD)
Shrinkage at 150°C :	0.17 %
Color:	yellow/brown
Anti-adhesive properties:	both sides

Storage & handling

Temperature: $15 - 25^\circ\text{C}$
Humidity: 40 – 60 rh%
Storage: flat in original package until usage.
electrostatic discharge will be reduced, if stored as recommended

Availability

Thickness:	25 μm
Rolls:	maximum width: 2000 mm
	maximum length: 2000 m
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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