

# RELEASE FILM RLXSS25 Printed

## RELEASE FUNCTION ONLY!!!

RLXSS25 – Release Film is a very economical solution to be used in all different types of lamination processes, mainly for FPC QUICK LAMINATION PROCESS and standard FPC or Rigid-Flex MLB lamination process. The maximum laminating temperature is 200°C.

RLXSS25– Release Film is an inert material and leaves no residues on the PCB - surfaces and shows brilliant dimensional behaviour under thermal pressure and

guarantees an easy release function. The side without release function has the perfect moderate adhesion to Rubber or Conformal film! If it is used directly on steel plates the side without release function can still be easy removed from steel plates. The side without release function has a mirror image printing “Release Side” in all major languages (English, German, Korean, Japanese and Chinese)!

## PROPERTIES

Thermal usage in the hot press	max. 200 °C (394 °F) for 90min.	
Melting point	260 °C ± 10 °C	
Density	1.400 gcm <sup>-3</sup>	ASTM-D1505
Tensile strength	MD ≥ 215 Nmm <sup>-2</sup> TD ≥ 225 Nmm <sup>-2</sup>	ASTM D882A ASTM D882A
Elongation at break (v= 50mmmin <sup>-1</sup> )	MD ≥ 125,7 % TD ≥ 112 %	ASTM D882A ASTM D882A
Heat shrinkage (150°C / 30min.)	MD ≤ 1.2 % TD ≤ 0,2 %	ASTM D1204 ASTM D1204
Coefficient of friction (static) Coefficient of friction (dynamic)	0.28 0.15	ASTM D1894 ASTM D1894
Decomposition temperature	> 280 °C	
Moisture Absorption	< 0.9 % at common room conditions	
Appearance	transparent	
Haze	2,2 %	ASTM-D1003
Surface	smooth - both sides, Ra < 0.3 µm	
Storage Life	> 1 year at room temperature	
Thickness	25 µm – 1,0 mm	
Length of film	1000 m	
Roll widths	660, 680, 991, 1295 mm	

Subject to changes due to technical improvements without prior notice.

Other dimensions on request.

### Guide lines how to detect the side of release function on a sheet

We recommend a method how to detect the side with release function without using adhesive tape if RLXSS25 used in sheets as follows:

#### Conditions:

RLXSS25 release film rolls must be inserted in the cutting machine always the same way that the sheets always face the same position.

The sheet must have obviously one shorter and one side!

Not sheet should be flipped over during the cutting process!

For example, the size is 20" x 26". The sheets have the release function on top and a shorter side is facing the operator. Then cut off with a pair of scissors a little corner on the shorter side in front right corner (see below pic. 1).

#### Detection method:

If you turn and flip the sheets over that you don't know anymore which side was the one with release function it is still very easy to find out;

Turn that shorter side with the cut corner close to you, so it will result in Picture 1 or 2 (please see below). If the cut corner is now left, means the release function is on the bottom of the sheet (Picture 2).

Flip it over if the cut corner is on the left side. Now the cut corner is on the right side and the release function is on the top of the sheet (Picture 1).

After getting used to it the operator won't make mistakes anymore.

Recommended for an efficient lay-up process if 2 packets of cut CAP RLXSS25 release film is place near the lay-up position and one packet flipped over (Picture 2). This way the lay-up will be kept very simple and prevents mistakes!!!

