



# TECHNICAL DATA SHEET

## COMBIVAC180-1

**3-layers combined product:  
polyamide peel ply, FEP release film and breather**

### ► DESCRIPTION

COMBIVAC180-1 a multilayer system made of polyamide peel ply, FEP release film and breather. This 3-products-combination has been created for the vacuum moulding technology. It facilitates the implementation of the bagging materials.

Vacuum moulding of composite materials involves using a number of vacuum consumables having an effect on the manufacturing and the quality. Some of consumables are used in successive layers, such as peel ply, perforated film, breather felt, and vacuum-bagging film. Standard procedures involve applying each one separately (e.g., peel ply, perforated film, breather felt), which can be difficult, especially when moulding is done against a vertical mould. This type of procedure can result in overlapping on very large parts, or even the omission of a layer. Overlapping can cause deformation on thin parts, creating weak areas, or it can affect the porosity of subsequent layers.

COMBIVAC180-1 is to be laid down on one side of the resin-saturated part. The system combines several consumables into a three-layer unit: the peel ply layer on the bottom, adhering directly to the preform; perforated release film, permeable to resin and gases, as the next layer; and the breather on top. This easy-to-use solution eliminates the risk of overlapping or omitted layer.

The use of COMBIVAC180-1 gives many benefits: save time, improve the composites quality and it is easy to use and less expensive as you buy and apply one product instead of 3.

This product is used in various manufacturing processes of parts made of composite materials.





# TECHNICAL DATA SHEET

## COMBIVAC180-1

**3-layers combined product:  
polyamide peel ply, FEP release film and breather**

### ► TECHNICAL DATA

Parameter	1-st layer: Peel ply	2-nd layer: Release film	3-d layer: Breather
<b>Material type</b>	Polyamide	FEP perforated PC	Polyester
<b>Weight</b>	85 g/m <sup>2</sup>	approx. 40 g/m <sup>2</sup>	330 g/m <sup>2</sup>
<b>Colour</b>	White with red tracers	Red	White
<b>Max use T*</b>	180°C	260°C	204°C

Max use temperature\* of the combined product - 180°C

### ► SIZE

Thickness	Width	Length
500µm	1500mm	25m

Shelf life: unlimited

Storage conditions: it is recommended to store at temperatures between +10°C and +30°C in original packing.

### ► NOTE

\* Maximum use temperature should be determined in actual process conditions.