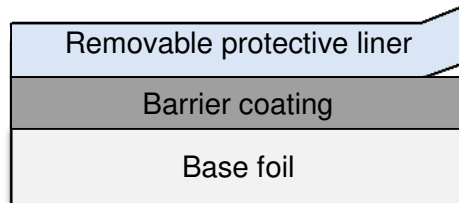


## Technical Data Sheet Rolic® RBF 101

**Description** Rolic® Barrier Foil RBF 101 is a transparent barrier foil for application in oxygen and moisture sensitive devices, such as organic photo-voltaic (OPV) and organic light-emitting diode (OLED).

**Stack of RBF 101:**



**Features** Main features of RBF 101:

- Water Vapour Transmission Rate (WVTR)  $10^{-4}$
- Transparency
- Low haze
- Maximum working temperature 130°C
- Suited for hybrid OLED encapsulation (combination with Thin Film Encapsulation)

**Typical Dimensions** RBF 101 is typically delivered on a reel (A4 size only for sampling):

Roll core	6 inch
Roll width	400 mm
Roll length	100-400 m
Foil thickness	145 $\mu\text{m}$
Release liner thickness	50 $\mu\text{m}$

**Typical Properties**

H <sub>2</sub> O barrier properties	< $5 \cdot 10^{-4}$ g/m <sup>2</sup> /d WVTR@60°C/90%RH
Optical transparency	> 82% of free standing foil in VIS
Transmissive haze	< 1% of free standing foil in VIS
Temperature resistance	< 130°C for 30min
Release Liner	on barrier coated side of the foil
Yellow marks	indicate start and end of barrier stack coating

**Customization** All Rolic® Barrier Foils can be customized to ensure compatibility to the application, process and other interfaces for best performance, wide process window and high throughput.

**Handling and Storage**

Storage temperature	20°C – 30°C
Storage conditions	product must be protected from light (store in original packaging only)
Shelf life	1 year

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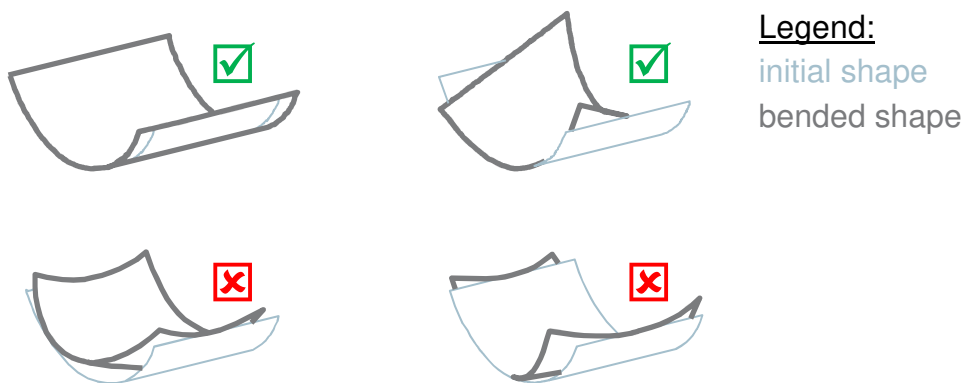
## Handling and application instruction

### Rolic® Barrier Foil 101

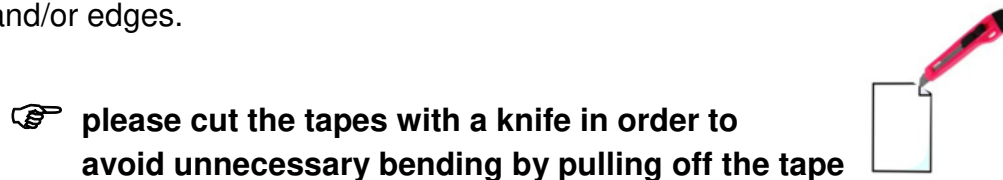
In order to maintain the barrier performance, foils should be in general treated with care, not folded or excessively bended or scratched.




 **Do not bend in more than one axis at the same time (avoid kinks)**

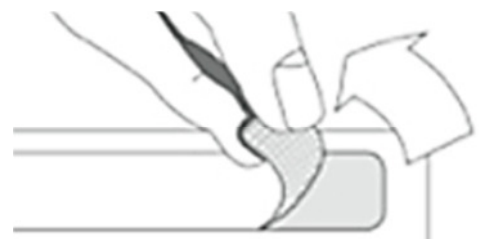


Small sample foils are delivered in a box, where the foil is fixed with tapes at the corners and/or edges.



The top coat is typically facing the moisture sensitive device and it is used to protect the barrier coating during handling.

 **gently remove the liner** adhering to the top coat  
be aware of possible electrostatic charges



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