

Heat resistant coating to prevent damages on film caused by heat sealing

Z327 Heat resistant coating

Z327 Heat resistant matt coating

- Reduces heat shrinkage during bag or pouch making
- Expands the range of heat sealing temperatures by 20°C
- Enhances the production of PE film based pouches at higher speed

Application

- Food packaging

Test example (A) Z327 Heat resistant coating / MDOPE (25 µm) / Ink / Laminating adhesive / LLDPE (50 µm)

Heat sealing conditions 2 kgf/cm ² , 1 s	Heat shrinkage evaluation		
	Without coating	With Z327 heat resistant coating	With Z327 matt heat resistant coating
120°C	Good	Good	Good
130°C	Limited	Good	Good
140°C	Bad	Good	Good
150°C	Bad	Good	Good

Heat sealing temperature 140°C



Without heat resistant coating



With heat resistant coating

Test example (B)

Z327 Heat resistant overprint varnish / MDOPE (25µm) / Ink / laminating adhesive / LLDPE (50 µm)

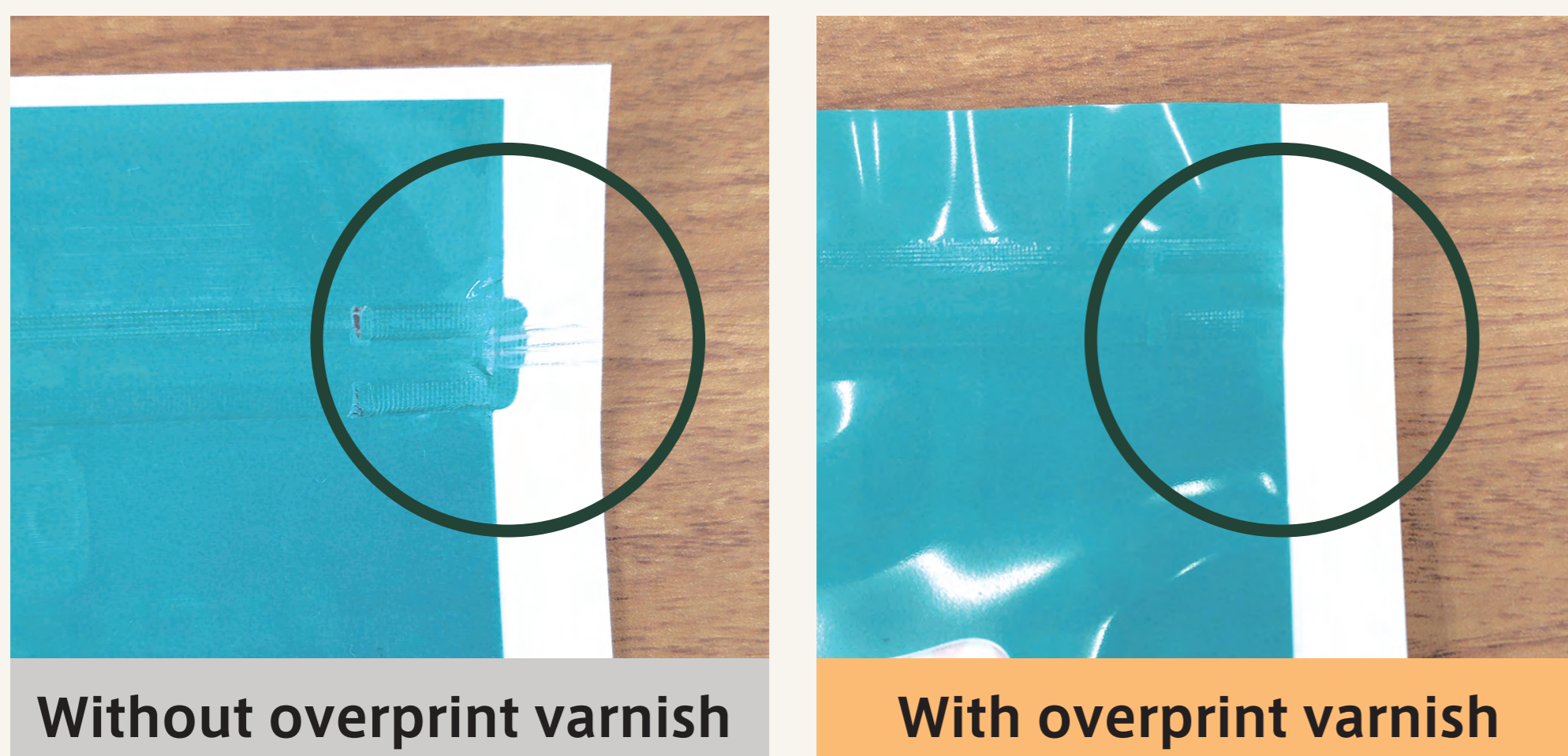
Collaborative work with Totani Engineering Co., Ltd. 



Scenario 1

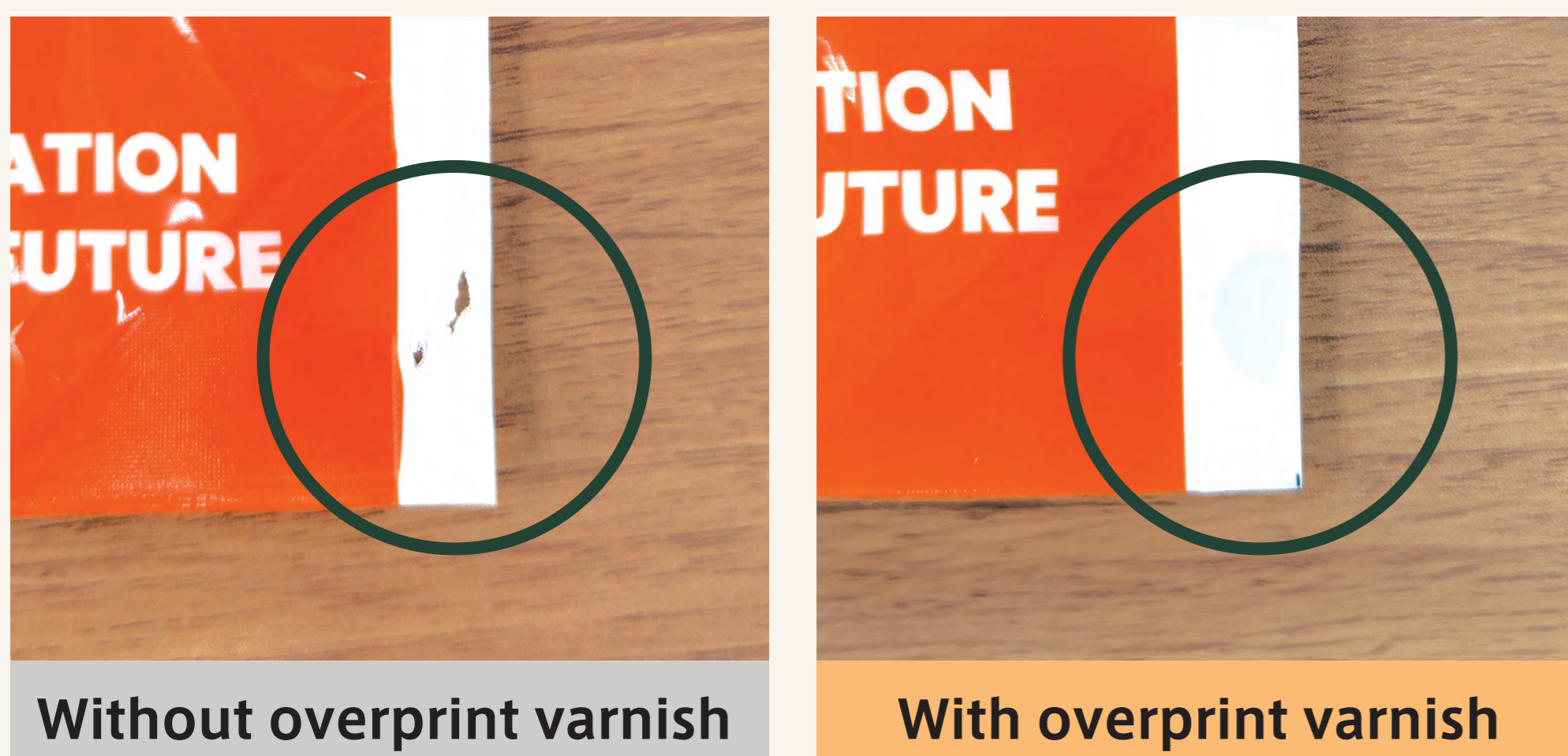
Horizontal sealing 170°C,
vertical sealing 190°C,
sealing time 500 ms

Zipper part



Improved heat absorption in the seal area

Hole punching areas



Film breakage improved

Bottom part

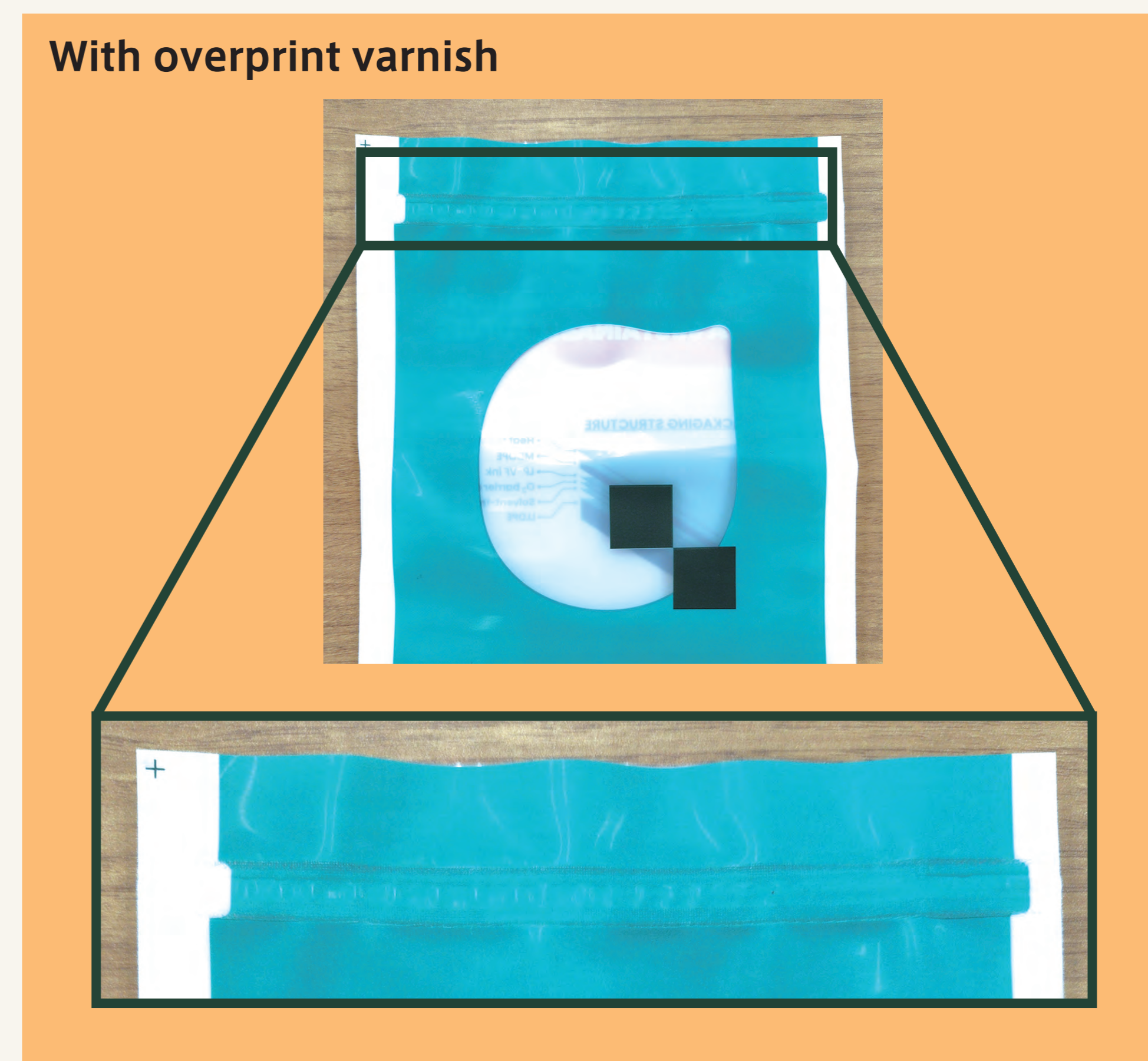
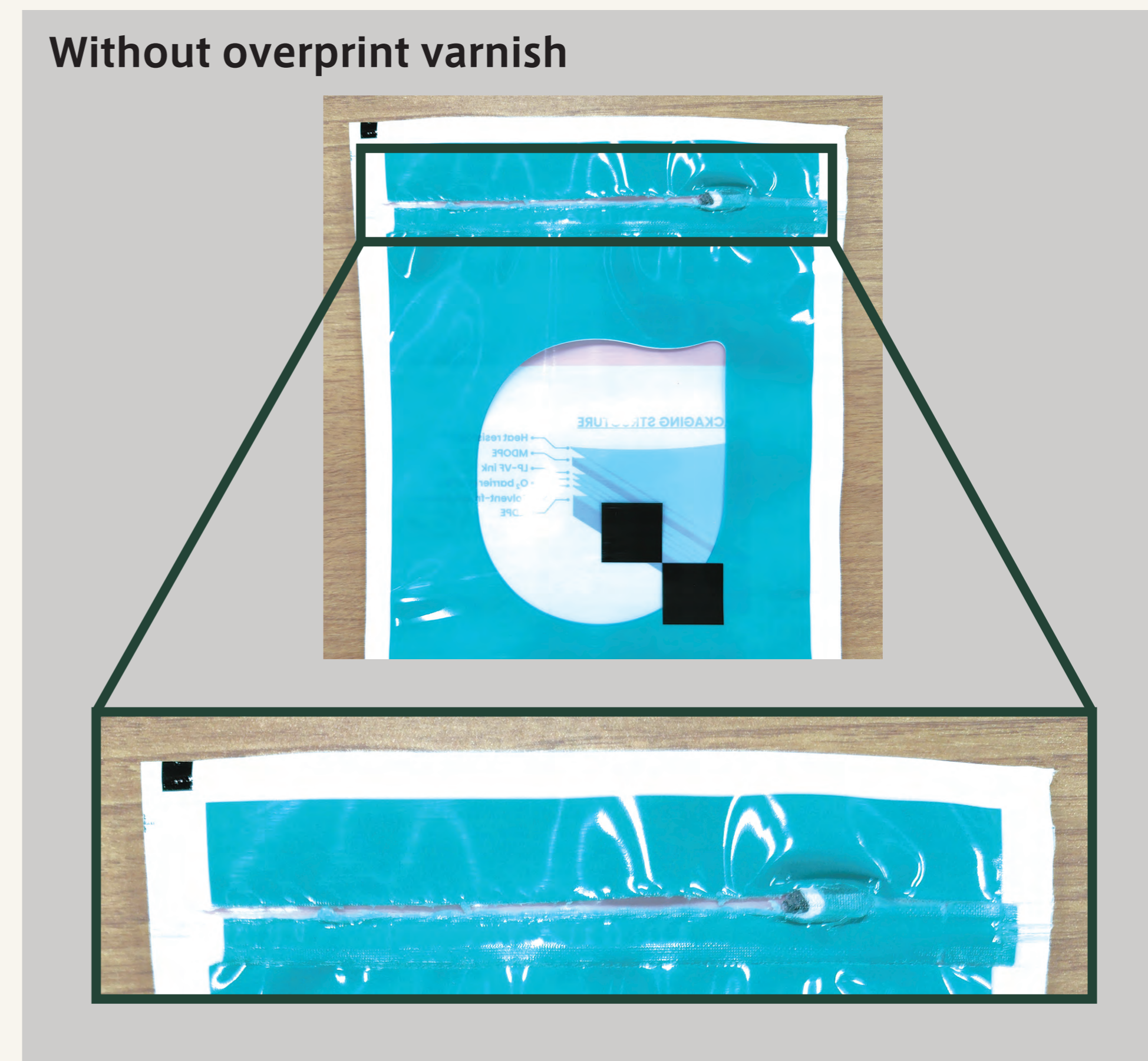


Improved heat fusion of the substrate surface

Scenario 2

Horizontal sealing 170°C,
vertical sealing 210°C,
sealing time 200 ms

Zipper part



Film breakage in the zipper area improved