



ORAFOL Europe GmbH

Engineered to Perform Better™



ORAFOL Europe GmbH | Engineered to Perform Better™ | www.orafol.com

Corporate Headquarters, Germany



250,000 m²



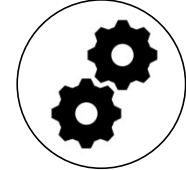
State-of-the-art production facility
R&D
Logistics
Sales and administration



Facts and Figures



> 2.600 employees



State of the art Produktion



6 division



**Certified according to DIN
ISO 9001,14001 und 50001**



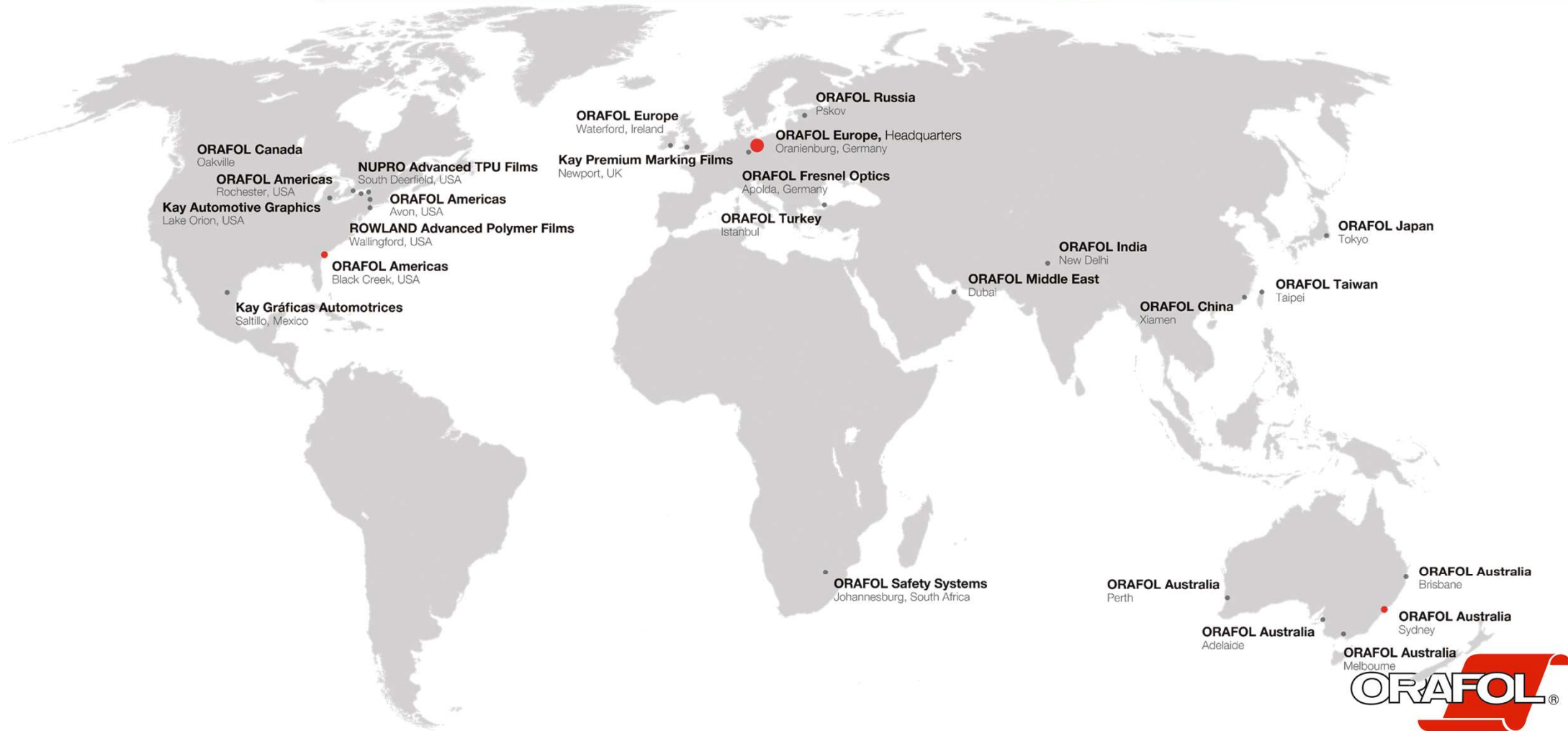
> € 720 Mio. PNS



Locations in 10 countries



Global footprint



ORAFOL's Divisions

Graphic Innovations



Adhesive Tape Systems



Reflective Solutions



Advanced Polymer Films



Graphic Innovations

Engineered to Achieve Perfection™



- Printing Materials
- Digital Printing Films
- CAD/CAM Vinyls
- Car Wrapping Films
- Specialty Films
- Laminating Films
- Mounting Films
- Application Tapes



Adhesive Tape Systems

Engineered to Perform Better™

- Transfer Tapes
- d/s Filmic Tapes
- d/s Non Woven Tapes
- d/s Scrim Tapes
- Splicing Tapes
- d/s Foam Tapes
- Acrylic Foam Tapes
- Flexographic Tapes
- Carpet & Cloth Tapes



Reflective Solutions

Engineered to Save Lives™



- Traffic Sign Films
- Construction Zone Films
- Vehicle Conspicuity
- Car License Plates
- Personal Safety
- Safety At Sea



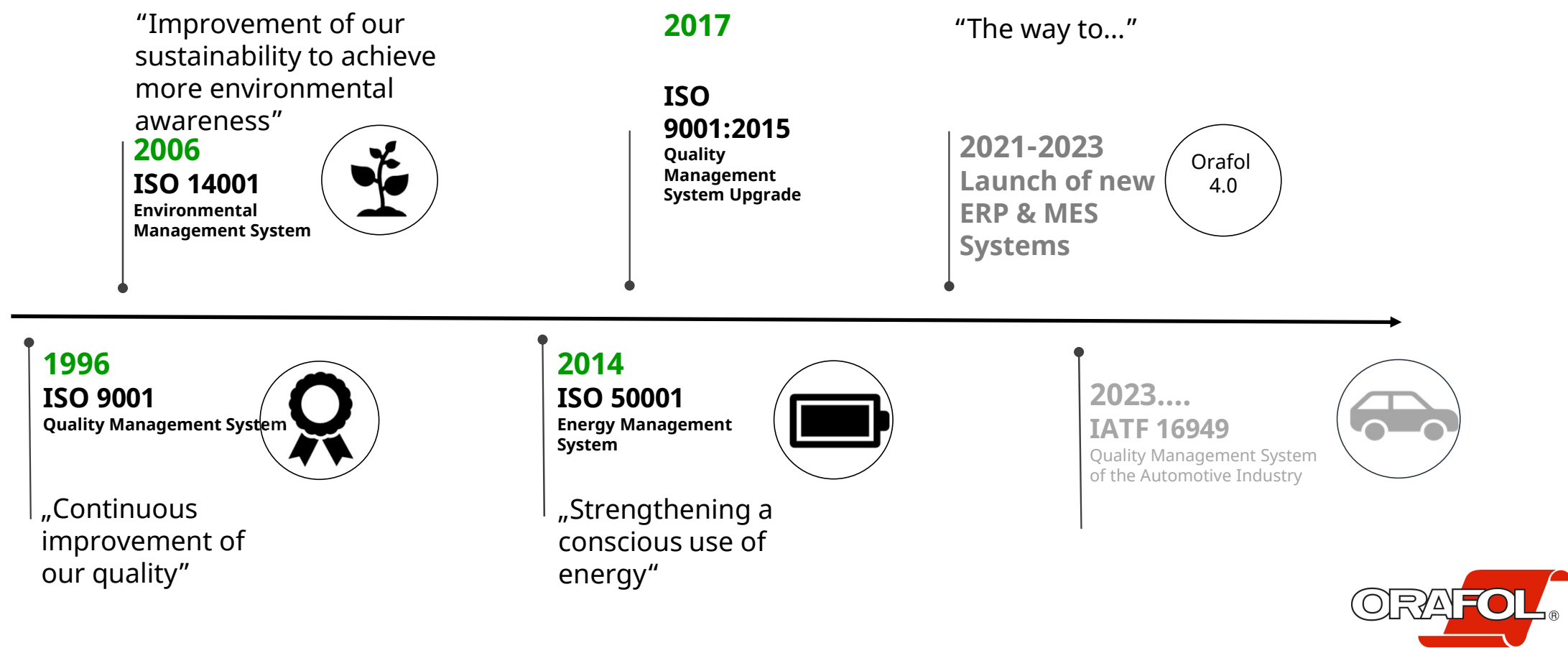
Advanced Polymer Films

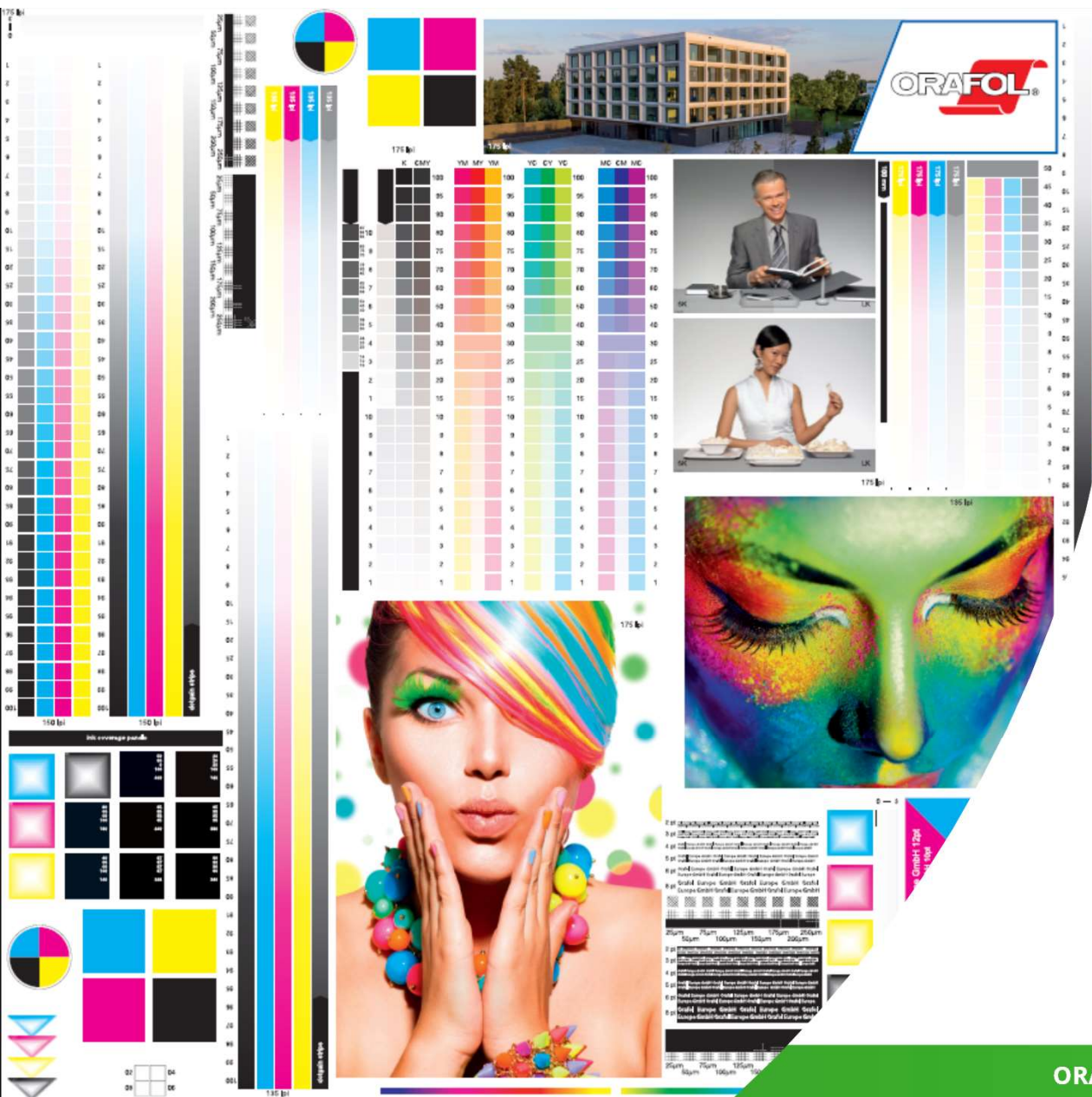
Engineered to Deliver Variety™

- RowTex® Polycarbonate Film
- SolaTuf® Impact Modified Acrylic
- RowLux® Illusion Film



Certification





ORAFLEX®



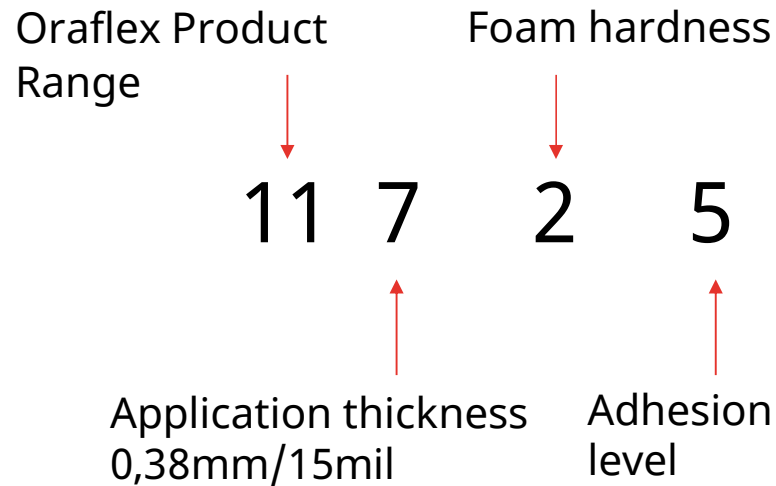
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ORAFLEX® Flexographic Mounting Tapes




- The ORAFLEX® Cushion Mounts include soft, medium and hard options
- The tapes are colour coded for easy identification
- Available in 380 µm and 500 µm thicknesses category
- Different adhesion levels on plate and cylinder side available
- Tested by DFTA and Esko, several print machine producers
- Differential adhesion levels for easy cliché removability replacement

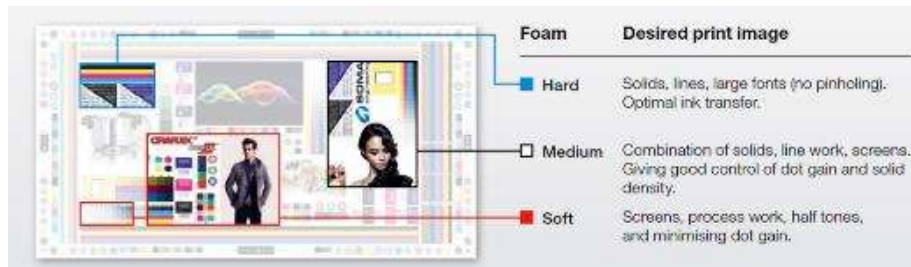


ORAFLEX Cushion product code identification



ORAFLEX® Cushion

	SOFT CUSHION		MEDIUM CUSHION		HARD CUSHION	
Thickness Category	ORAFLEX® 1172X	ORAFLEX® 1182X	ORAFLEX® 1175X	ORAFLEX® 1185X	ORAFLEX® 1178X	ORAFLEX® 1188X
	380 micron 15 Thous.	500 micron 20 Thous.	380 micron 15 Thous.	500 micron 20 Thous.	380 micron 15 Thous.	500 micron 20 Thous.
Interlayer colour						
Typical relationship between screen and solids						
Backing	Reinforced PE foam, closed cell		Reinforced PE foam, closed cell		Reinforced PE foam, closed cell	
Liner	PP filmic, white, embossed		PP filmic, white, embossed		PP filmic, white, embossed	



With the ORAFLEX® Cushion tapes, you can stay assured that your printing plates will stay where they are, and not lift.



ORAFLEX



ORAFLEX® Label Printing



- Market trend: **re-usability!**
 - Shorter print runs
 - Time saving
 - Cost saving
 - Plate removal without tape stretching
 - Plate removal without tape lifting



ORAFLEX NARROW Web Range

Enhancing re-usability by tape design



ORAFLEX® Cushion PET reinforcement

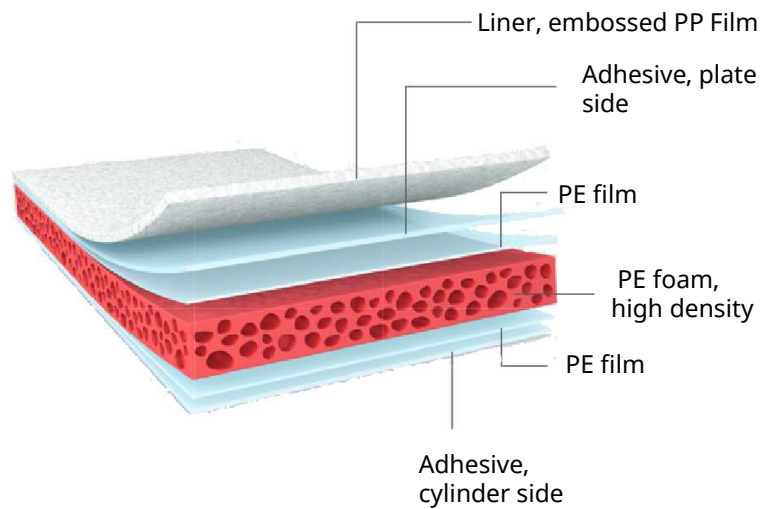
- Polyester reinforcement allows multiple plate removal without foam stretching



ORAFLEX® Cushion PET reinforcement

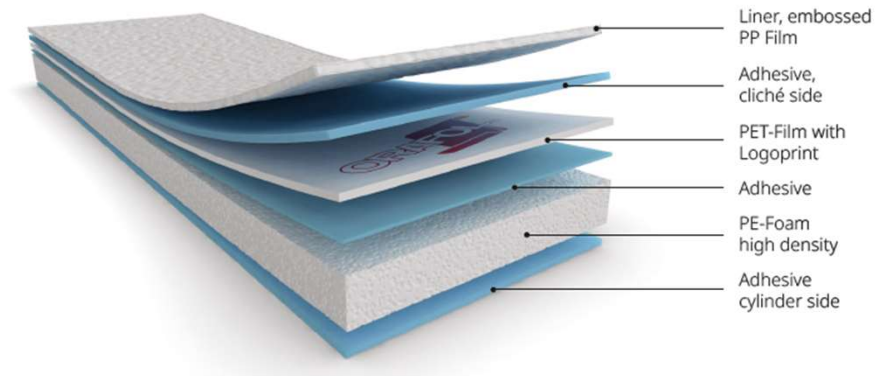
Polyester film reinforcement for better re-usability

- stiff PET film prevents foam from vertical stretching at plate demounting (smooth surface, no ghosting)



current design

ORAFLEX® Cushion Tapes Construction

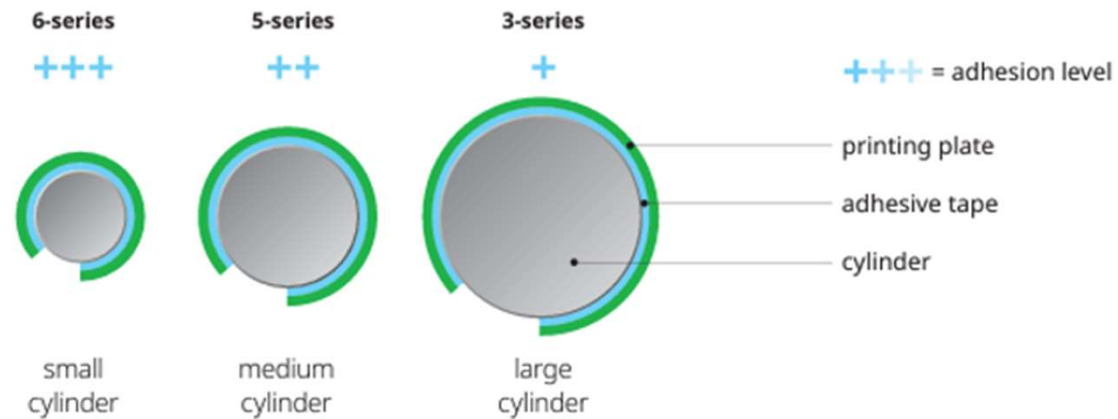


future design

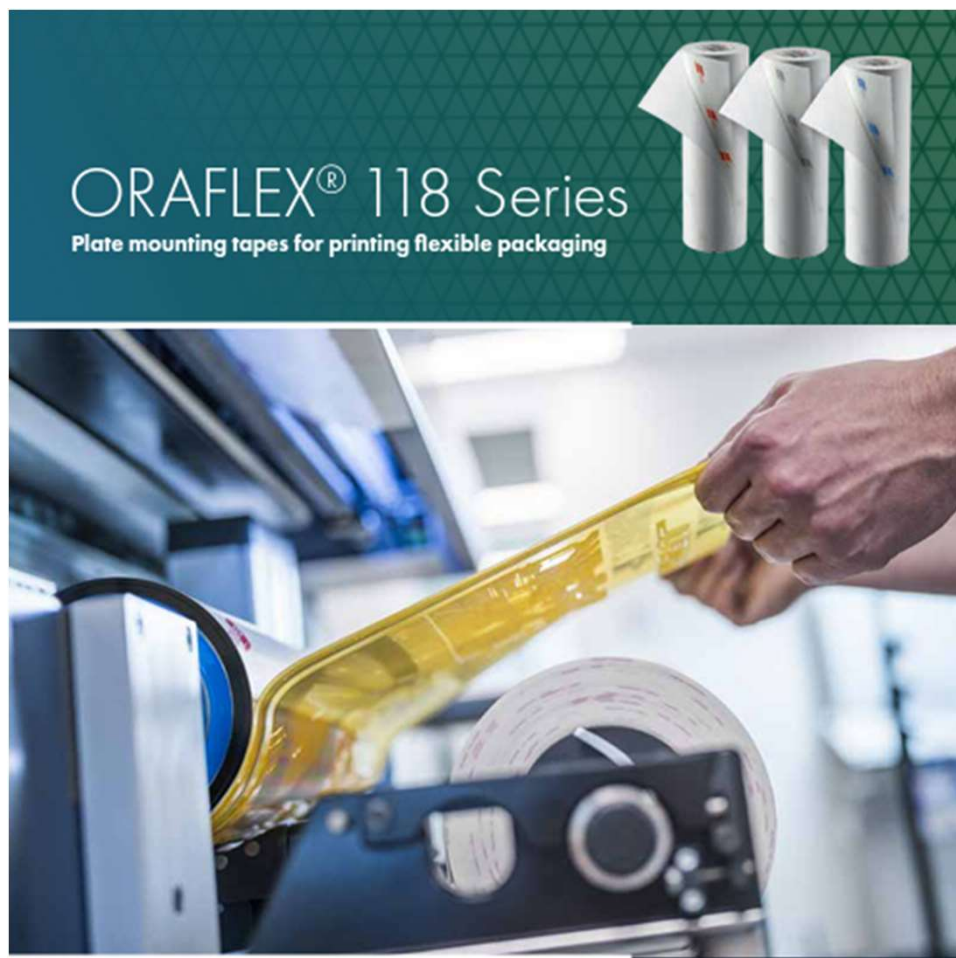


ORAFLEX Narrow Web Range

Choose the right adhesion level

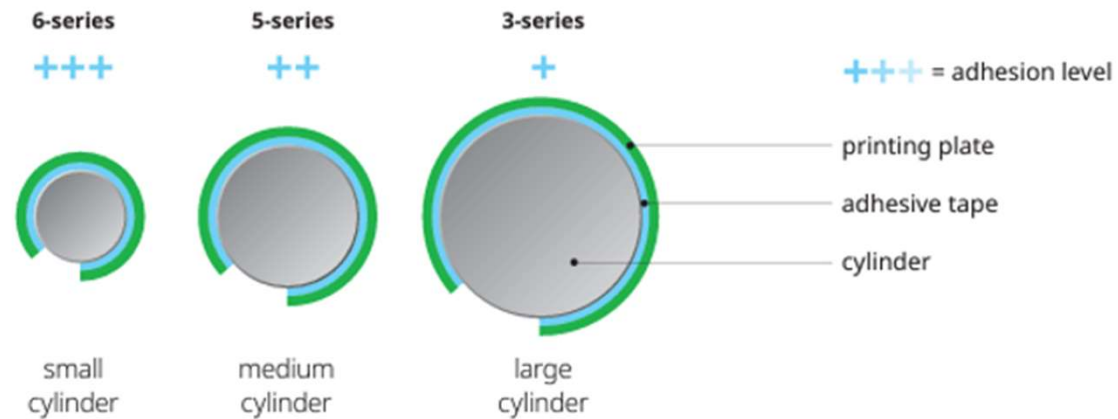


ORAFLEX Wide Web RANGE



ORAFLEX Wide Web RANGE

Choose the right adhesion level



ORAFLEX® Cushion

ORAFLEX® Cushion Tapes Construction

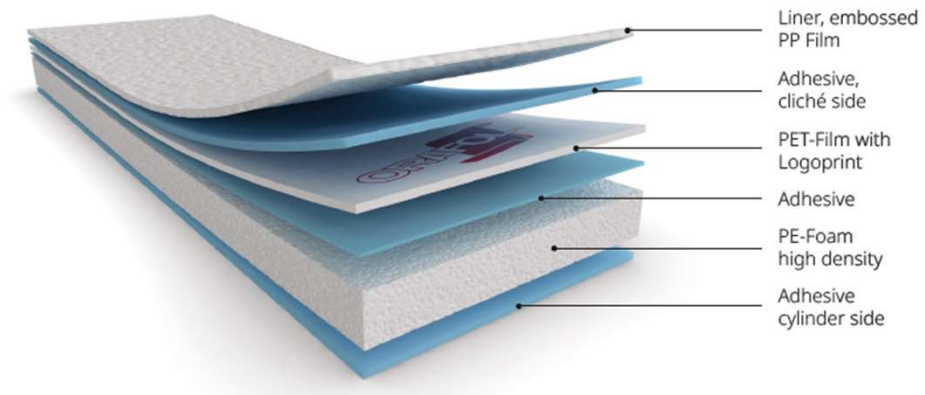


Plate Mounting Tapes – foam based for hard sleeves / cylinders

Features of liner:

- Embossing for air bubble free mounting
- Easy to remove
- Geometrical stability



The role of compressible Plate Mounting Tapes: adhesive

- ORAFLEX Cushion use odour-free solvent acrylate adhesives
- Very good to good repositionability (depending on adhesion level)



The role of compressible Plate Mounting Tapes: adhesive

- Compressible Plate Mounting Tapes are “Pressure Sensitive Adhesive”:
 - the greater the force applied during assembly, the greater the bond strength.
 - The bond strength increases as a function of time and pressure.
- One side of the tape sticks on the cylinder / sleeve (usually the open side) and the other side on the back of the plate (usually the closed side)
 - Therefore: different adhesion properties on each side



Plate Mounting Tapes – foam based for hard sleeves / cylinders

Which parameters can influence the adhesive performance?

- Temperature
- Solvents / cleaning agents
- Pressure of application



The role of compressible Plate Mounting Tapes: reinforcement

- The more flexible the filmic reinforcement is, the greater is the capability of the tape to:
 - compensate bouncing / vibration during printing
 - enabling higher run speeds
- Moreover:
 - the special manufacturing process (calibration) minimises the thickness tolerances ($\pm 0.02\text{mm}$)



The role of compressible Plate Mounting Tapes: foam

- High quality foam with very low thickness tolerance for a more accurate impression setting
- Exact compression of foam for a reduction of dot gain, improved ink transfer
- High quality foams – one medium foam can be used for most combinations and printing requirements



Sleeve

- Prooved on Sleeves from:



Plates

- Prooved on Plates from:

miraclon
Home of **KODAK FLEXCEL**
Solutions

XSYS
Print solid. Stay flexible.

 **MacDermid**
GRAPHICS SOLUTIONS

Asahi
Photoproducts

DU PONT®

ORAFOL®

ORAFLEX® Solid



ORAFLEX® Solid

	ORAFLEX® 11395	ORAFLEX® 11396	ORAFLEX® 11397
Thickness Category	100 micron 4 Thous.	200 micron 8 Thous.	300 micron 12 Thous.
Liner colour			
Adhesive	Natural rubber	Natural rubber	Natural rubber
Liner	PP filmic Brown Creped	PP filmic White Creped	PP filmic Green Creped
Carrier	PET film transparent	PP film transparent	PP film transparent
Roll sizes	310 mm x 25 m, 620 mm x 25 m, 900 mm x 25 m, 1200 mm x 25 m, 1240 mm x 25 m		

Tested by **DFTA**  **TECHNOLOGIEZENTRUM**
Die FlexoKompetenz.





The role of compressible Plate Mounting Tapes: Conclusion

- Very low thickness tolerances
- High quality foam for high quality printing
- Only three hardness grades – makes hardness choice very easy
- 3 adhesion levels
- Very good repositionability
- Solvent resistant adhesives
- ORAFLEX Cushion use odour-free solvent acrylate adhesives

