



Pentapharm® kpMax® films

Pentapharm® kpMax® rigid films for pharmaceutical blister packaging offer the highest moisture and oxygen protection barrier properties available in the world today—beyond what ACLAR® or PVdC products can offer alone. By combining ACLAR® lamination and PVdC coating, Pentapharm® kpMax® films are ideal for products that require exceptional barrier properties in a transparent, small footprint package.

Polymers:

- Four-layer structure combining PVdC coating and ACLAR® lamination
- Customized structures available upon request
- Available with either PVC or kpVantage® polyester surface layers

Applications:

Ethicals, OTC, generics, physician samples, veterinary, nutraceuticals

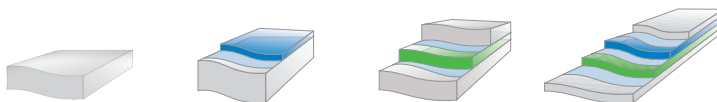
General Properties:

Designed for highly sensitive products requiring ultra-high moisture and oxygen barrier

Moisture Barrier:	Ultra high
Oxygen Barrier:	Ultra high
Thermoformability:	Mid
Sealability:	Mid
Sterilization:	EtO

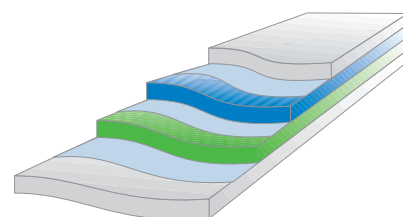
Special Features:

- Combines best available properties of barrier materials
- Ultra-high barrier properties in a small footprint, highly transparent package
- Available in clear, transparent colors and opaque colors
- Possible 40% reduction in surface area of the blister allowing up to 30% higher machine output
- Minimized blister card size for reduced secondary packaging
- Runs on standard production equipment and tooling, resulting in minimal transition costs



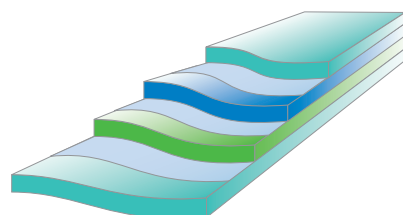
	Pentapharm® Mono	Pentapharm® alfoil®	Pentapharm® ACLAR®	Pentapharm® kpMax®
Moisture Barrier	Low	Mid - High	High - Ultra High	Ultra High
Oxygen Barrier	Low - Mid	Mid - Ultra High	Low - High	Ultra High

Pentapharm® kpMax® S04



PVC	Adhesive
ACLAR®	PVdC

Pentapharm® kpMax® kpVantage® S54



kpVantage®	Adhesive
ACLAR®	PVdC

BlisterPro® XCEL

Moving at the *speed* of your next big idea.

Not sure what package you need? Klöckner Pentaplast's BlisterPro® XCEL services take the guesswork out of packaging with accelerated shelf life stability modeling and testing, optimal barrier determination, virtual package design and physical prototyping with a wide variety of blister films. In just weeks, you can confidently select the optimal package material and design for your product, saving countless hours of trial-and-error prototyping and stability testing. Let kp help you make the first choice the right choice, every time!

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