



## Pentamed® films for medical device packaging

We know that medical devices and instruments are sensitive and must be protected from both physical damage and environmental contamination. But health professionals need to open the packages quickly and easily. With Pentamed®, you get it all. These strong films produce trays and clamshells that ensure both product integrity and user convenience.

Our films are manufactured in a controlled environment to the strictest current GMP standards. We ensure consistent security of supply via global sourcing, with worldwide manufacturing and distribution facilities. Requalifications for product transfers are no longer needed, so you get quicker access to new markets. And we are unique in backing every order with outstanding local technical support and customer service.

### Product Characteristics

- › Brilliantly clear
- › Excellent deep-draw thermoforming characteristics
- › High efficiency on standard form/fill/seal machinery
- › Higher yields, more good parts per pound kilogram, reduced costs
- › No silicone branching
- › Sealable to a full range of lidding materials
- › Softer cutting formulations cause less knife wear and increased up-time
- › Wide range of sterilization options (EtO, gamma, E-beam, and steam)

### Film Options

- › Clear, transparent colors, and opaque colors
- › Custom film thicknesses
- › Custom formulations
- › Custom roll widths
- › Gloss, matte, matte/gloss, and embossed surfaces
- › UV inhibitors

## Innovative products that meet your needs

With Pentamed®, kp offers the most comprehensive line of films for medical device packaging in the industry. Choose from mono-polymer and multi-polymer rigid films in a range of formulations to suit your product. And if we don't have the film you need, our engineers will design a custom formulation.

### Pentamed® films overview

		sterilization				barrier		forming			other characteristics				
		EtO	gamma	E-beam	autoclave/steam	oxygen barrier	moisture barrier	thermoforming	die cutting	forming range °F (°C)	biocompatibility/organoleptics (taste & odor)	chemical resistance	scratch resistance	heat sealing (Tyvek, paper)	can be colored or tinted
mono-polymer films	Pentamed® Vinyl	✓	—	—	—	++++	++++	++++	+++++	212-311 (100-155)	+++	+++	+++	+++++	+++++
	Pentamed® PETG	✓	✓	✓	—	+++	++	+++	+++++	212-311 (100-155)	+++++	++	++	+++++	+++++
	Pentamed® GAG-PET (GPETG)	✓	✓	✓	—	++++	++	+++	+++++	248-284 (120-140)	+++++	++	++	+++++	+++++
	Pentamed® APET	✓	✓	✓	—	++++	++	++	++	248-284 (120-140)	+++++	++	++	+++++	+++++
	Pentamed® HIPS	✓	✓	✓	—	+	+	+++++	+++	270-300 (132-148)	+++	+	++	+++++	+++++
	Pentamed® PP	✓	✓	✓	✓	+	++++	++	+++	320-360 (160-182)	+++++	++	++	+++++	+++++
multi-polymer film	Pentamed® PET/PE	✓	✓	✓	—	++++	+++	++	++	250-330 (121-165)	+++++	++	++	+++++	++
+ Standard    +++ High    +++++ Ultra High															

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