

FastelFoil PRO Product Description

FastelFoil PRO is a heat sealable aluminum foil designed for either direct heat sealing or induction sealing to many types of polypropylene surfaces. FastelPRO is constructed with an aluminum foil substrate and polypropylene coating one side and is capable of meeting the requirements for either peel or puncture methods. FastelFoil PRO meets the requirements for multiple healthcare, medical device/diagnostic, dry good pharmaceuticals, PCR analysis and food packaging application. FastelFoil PRO is available in master rolls, slit rolls or die cut to a specific custom outline.

PRO Product Characteristics / Formats

Seal Layer Coating:	Polypropylene
Seal Thickness:	0.001"/0.025mm (~27 microns)
Seal Color:	Hazy / Transparent
Substrate Type:	Aluminum (soft temper)
Substrate Thickness:	0.002"/0.051mm (~50 microns)
Total Thickness:	0.003"/0.076mm (~77 microns)
Delivery Formats:	Continuous Log or Slit Rolls / Die Cuts
Lamination Options:	PET Film, C1S Paper Backing Lamination
Printing Options:	2 Color, Flexographic, Repeat, Registration Direct to foil or top side laminate
Fastel Die Cuts:	Individual die cut pieces Multiple die cuts per card Continuous die cut rolls

PRO Construction

Aluminum Foil (0.002" / 0.051mm)

Polypropylene Coating (0.001" / 0.025mm)

Typical PRO Applications

Polypropylene Containers or Bottles
Custom Polypropylene Chambers
Blister Packs / Dry Goods
Microtiter Plates
Barrier Foil
Cap or Cap-less Application

PRO Material Properties and Storage

Water Vapor Transmission Rate	< 0.01 g/m ² @ 25°C / 100% r.h.
Oxygen Transmission Rate	< 0.005 cm ³ /m ² @ 25°C / 100% r.h.
FDA Contact	FDA 175.105
Storage Temperature	Store at or below 80F / 26C
Storage Conditions	Store in cool, dry location in original packaging until use

PRO General Direct Heat Sealing Temperature

Seal Temperature:	293F/145C to 375F/190C (see note 1)
Seal Pressure:	10 PSI to 100 PSI (see note 1)
Seal Time:	3 to 10 seconds (note 1)
Typical Heating Devices:	Heat Press
Conformal Surface Pad:	Soft to hard durometer interface pad materials may be required depending on surface flatness conditions that are greater than 0.001"/0.025mm or for larger interface areas.

Note 1: listed are general direct heat sealing parameters only. The above should be used as a general guideline and basis of expanded customer DOE (design of experiment) testing within the scope of their equipment, flatness conditions, chamber geometry and application requirements.

PRO General Induction Sealing Temperature

Induction Setting:	100% Power (see note 2)
Induction Pressure:	10 PSI to 50 PSI (see note 2)
Seal Time:	0.5 to 5 seconds (note 2)
Typical Heating Devices:	Commercially available or customer induction equipment

Note 2: listed are general induction sealing parameters only based upon commercially available Enercon Handheld Induction Equipment. The above should be used as a general guideline and basis of expanded customer DOE (design of experiment) testing within the scope of their equipment, flatness conditions, chamber geometry and application requirements.

Samples or More Information

For more information or to receive samples for testing, please contact us toll free at 1-888-989-3832 (US Only) +1-949-369-7676 (international) or e-mail info@fasteladhesives.com

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