FASTELFOIL PA250-HV

Product Data Sheet

P/N: HV-AL (High Viscosity)

FASTELFOIL PA250-HV Product Description

FastelFoil PA250-HV is a heat sealable aluminum foil designed for direct heat sealing or induction sealing to many types of plastic surfaces. The PA250-HV seal composition is a polyethylene based heat activated seal coating exhibiting high viscosity at its melt point allowing for increased barrier properties over the PA250-LV (low viscosity) version. With a higher viscosity profile at melt, PA250-HV can still provide flow and conformability to uneven or unique surfaces. Due to its inert polyethylene base, FastelFoil PA250-HV an ideal candidate for medical device diagnostic applications and sensitive electronic applications needing an easy bonding process and seal barrier especially when not dealing with ultra-flat surfaces. FastelFoil PA250-HV can be delivered in custom defined rolls, die cut individuals, die cut sheet arrays or die cut continuous reel formats.

Product Features
Excellent Sealing Characteristics
Uniform Bond Line Thickness
Controllable Flow Upon Heating
Quick Curing / No Set Heating Time

Popular Mounting Surfaces
Aluminum / Copper / Stainless
ABS / Styrene / Vinyl
Glass / FR4 / Wood / Paper
Polycarbonate / Polyethylene

FastelFoil PA250-HV Construction / Format

Seal Base Coating:	Polyethylene Blend
Seal Thickness:	1 Mil, 2 Mil, 3 Mil, 5 Mil Custom thickness available
Seal Color:	Clear
Aluminum Thickness:	0.5 Mil, 1 Mil, 1.5 mil, 2 mil Custom thickness available
Delivery Formats:	Master 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:	Customer defined width Individual die cut pieces Multiple die cuts per card Continuous die cut rolls

Processing Note: standard roll material contains a release liner on PE seal coating side and can be collected up during roll unwind. Roll material is available with no release liner (self-wound) but should be stored at room temperature 78F/25C to aid in preventing very light tackiness of material during unwind.

PA250-HV Material Properties and Storage

Type: HV1-ALH1
Composition: 1 mil coating / 1 mil aluminum

Water Vapor Transmission Rate	< 0.07 g/m^2 @ 35°C / 90% r.h.
Oxygen Transmission Rate	< 0.07 cm^3/m^2 @ 35°C / 90% r.h.
FDA Contact	FDA 175.105
Storage Temperature	Store at or below 85F / 29C
Storage Conditions	Store in cool, dry location in original packaging until use

Type: HV1.5-AL2 (1.5 mil coating / 2 mil aluminum)
Composition: 2 mil coating / 2 mil aluminum

Water Vapor Transmission Rate	< 0.05 g/m^2 @ 35°C / 90% r.h.
Oxygen Transmission Rate	< 0.05 cm^3/m^2 @ 35°C / 90% r.h.
FDA Contact	FDA 175.105
Storage Temperature	Store at or below 85F / 29C
Storage Conditions	Store in cool, dry location in original packaging until use

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FastelFoil PA250-HV General Direct Heat Sealing Recommendations

Melt Point:	250F / 120C minimum
Max Continuous Operating Temp:	215F / 102C
Viscosity Reference:	45,500 CPS @ 300F/150C
Full Bond Temperature:	284F – 350F (140C to 176C) (see note 1)
	20 - 50 PSI+
	3 to 60 seconds+ (dependent on time and pressure)
Typical Heating Devices:	Heat Press, Induction Seal, Curing Oven, Heated Rollers

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. Due to flow capability of heat seal coating, factors such as time, temperature and pressure conditions should be tested to yield desired flow objectives.

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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