



SURPASS[®] HPs267-AB Resin

Ultimate moisture barrier for recyclable package designs



SURPASS HPs267-AB resin sets the new standard in moisture-barrier performance. With improved barrier performance over our best-in-class HPs167-AB, the new HPs267-AB enables longer shelf life by protecting moisture sensitive layers and products in food packaging.

HPs267-AB helps advance the circular economy by enabling replacement of metallized or PET-laminate non-recyclable films with recyclable, PE-based designs. Packaging engineers also have more flexibility to design a wide range of barrier films without sacrificing moisture barrier performance, toughness or processability.

Designed for blown films, HPs267-AB is ideal for a wide variety of food packaging applications including meat, cheese, cereals and crackers, baking staples, high fat content foods, pet food and more.

Barrier Resin Portfolio Chart									
Grade	Application	Key Features	MVTR (g/100in²/day)	OTR (cm³/100in²/day)	Density (g/cc)	Melt index (g/10 min)			
SURPASS HPs167-AB	Blown film	Consistent barrier performance across a broad range of processing conditions	0.07	30	0.967	1.2			
SURPASS HPs267-AB	Blown film	 Improved extrusion processability Enables greater freedom in structure design Ultra-low water vapor transmission rate 	0.06	24	0.967	2.0			
SURPASS HPs667-AB	Cast film	Excellent moisture barrierSuperior stiffness	0.08	45	0.968	6.0			
SCLAIR® 19C	Blown film	Good barrier propertiesHigh stiffness	0.17	96	0.958	0.95			

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Next level barrier performance

0100-9701-9701-

Achieve up to 20% improvement in water vapor transmission over HPs167-AB with HPs267-AB barrier in the core of multi-layer coextruded film structures.

A 1.5 mil, 3-layer structure provides optimal protection for a wide range of products



3-layer moisture barrier

Application: Liners in bag in box applications like cereal and cake mixes

Measured MVTR data (g/100in ² /day)						
HPs167-AB	HPs267-AB					
0.1171	0.1041					

EATS

Recyclability and Energy Savings

HPs267-AB is a building block for recyclable packaging by replacing metallized nonrecyclable films. The resin also has stiffness and heat resistance sufficient for packaging processes to enable replacement of PET.

- Transparent barrier option for window packaging
- HPs267-AB polymeric barrier layers have high flex crack resistance and are not susceptible to pinholing and abrasion found in metallized structures.

Applications:

- SUP, pillow pouches, flow wrap
- Dry goods

Liquids

High fat content food

HPs267-AB enables recyclable packaging and energy savings by avoiding triplex laminates with metallization or coating

Conventional laminated triplex barrier structure:



Recyclable, printable duplex laminate (laminated for reverse printing):



Toughness and Versatility

Exceptional moisture barrier creates the opportunity to make tougher or downgauged film structures while meeting barrier requirements. The HPs267-AB resin's molecular architecture provides consistent barrier performance across a broad range of processing conditions. Its consistency also allows for more degrees of freedom in the design of barrier structures. Blends also retain barrier performance to optimize cost and performance.

Applications:

- SUP, sachets
- Dried fruit
- Pasta
- Confectionary
- Baking staples (salt, sugar, flour)

Switching to HPs267-AB from HPs167 allowed for a 17% reduction in barrier material and a commensurate increase in the tough layer.



		Conventional 5-Layer Barrier Film	Tough Barrier Film	Percent Change
Layer ratios in 3.5 mil film	HDPE	20%	20%	
	Tough LLDPE	18%	25%	39%
	Barrier HDPE	HPs167-AB: 42%	HPs267-AB: 35%	(17%)
	Sealant	20%	20%	
Film Properties	MVTR (g/100in²/day)	0.06	0.06	Same barrier performance
	Dart (g)	216	506	134%
	MD Tear (g)	274	454	66%
	Puncture total energy (lbf-in)	33.1	38.4	16%
	Secant modulus (MPa)	607	575	(5%)



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