



Info Sheet
Flexible Films

SURPASS® HPs667-AB sHDPE Resin

Unmatched Barrier and Stiffness Performance

Obtain superior barrier and stiffness performance vs. traditional HDPEs with SURPASS HPs667-AB ultra-high barrier sHDPE resin. Designed for cast film, extrusion coating, and extrusion lamination applications, this resin features a unique molecular architecture that delivers up to 50% moisture and oxygen barrier improvement over conventional technology.

This high-density resin is an industry-leading solution that enables converters to custom-tailor solutions in-house and improve sustainability in a wide range of applications such as dry foods, snacks, liquid packaging, and dairy.

Used as a virgin HDPE resin, or blended with an LDPE, SURPASS HPs667-AB resin can help converters achieve a wide range of processing needs.

Streamline

Simplify co-extruded and laminated structures. New sHDPE permits package designers to choose where the barrier can be built into the structure.

Substitute

Replace barrier bi-axially oriented polypropylene (BOPP) with non-barrier BOPP, or coated PET with non-coated PET films when used in conjunction with this new sHDPE.

Sustain

Reduce expensive film structure components with comparable performance, lower-cost PE layers.



Key Attributes

- Ultra-low water vapor transmission rate (WVTR) in high-barrier applications
- Low oxygen transmission rate (OTR) in mid-performance barrier applications
- Superior stiffness among HDPE resins
- Facilitates layer or lamination simplification (e.g. 3-ply to 2-ply)

Benefits

- Increased shelf life reduces product spoilage
- Improves dimensional stability in stand-up pouches and machinability
- Reduces total structure cost
- Enables greater freedom in structure design

Applications

- Dry foods & snacks
- Lidstock, lidding films
- Stand-up pouches
- Release liners
- Multi-layer water vapor barrier laminations
- Molded barrier parts
- Paper coating

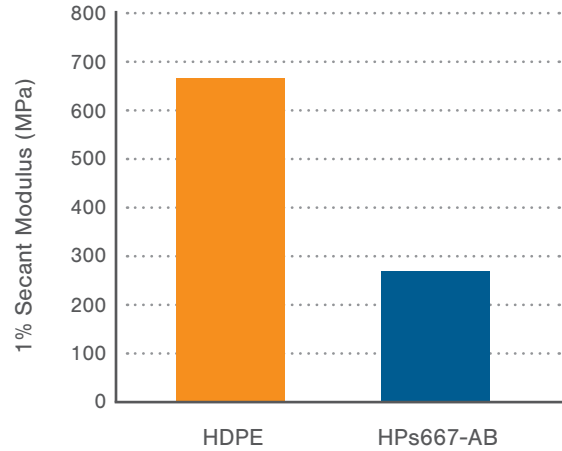
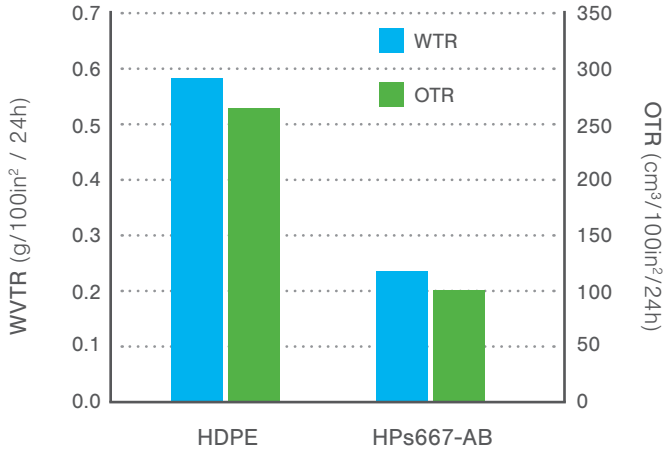
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Performance Comparison

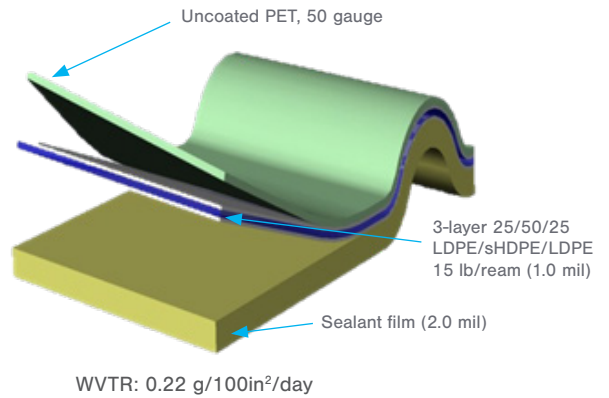
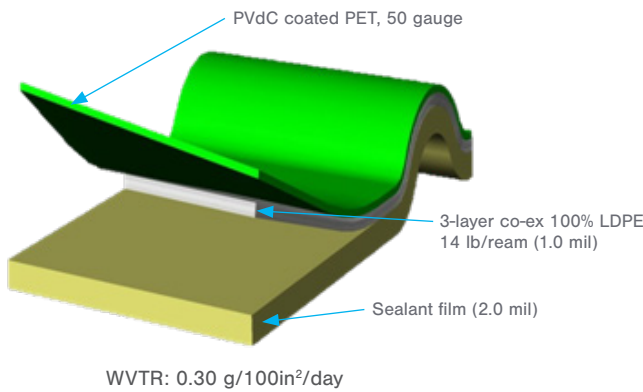
Cast Extrusion - SURPASS HPs667-AB resin vs. conventional HDPE

3-layer co-extrusion • 15% LDPE/70% HDPE or sHDPE/15% LDPE • Film gauge 1.0 mil



Structure Comparison

Extrusion Lamination - Replacement of barrier coated PET with standard PET extrusion laminated with SURPASS HPs667-AB resin



Spotlight: Cost Reduction and Multi-layer Structure Simplification

Reduce cost and simplify multi-layer structures with SURPASS HPs667-AB resin-based films. The resin's unique molecular architecture enables replacement of expensive webs such as PVdC-coated PET with standard PET laminated with HPs667-AB-based films. Cost savings can be realized through inventory simplification and lower cost webs.