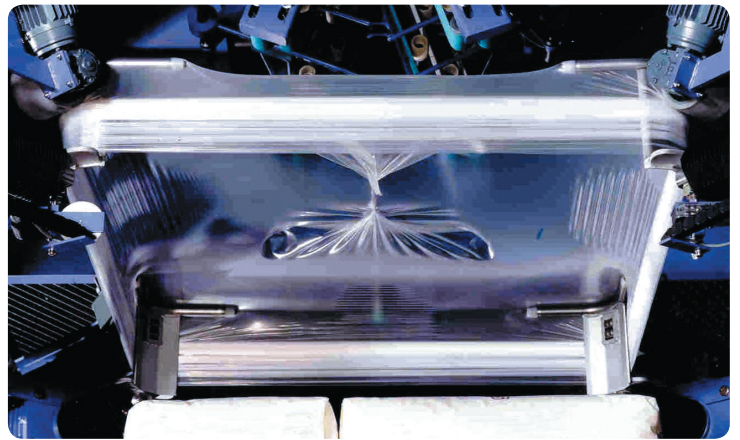


Proven Performance for Product Protection

Enhanced Stretch Hood Film Solutions

The demand for stretch hood packaging film continues to grow in established and new markets globally. Stretch hood packaging provides enhanced load stability and five-sided protection for pallet load unitization. Manufacturers require stretch hood films that deliver high levels of safety and product protection, whether pallets are being shipped across town or halfway around the world.

LyondellBasell resins are used to produce stretch hood films for some of the most demanding commercial applications. By combining film design and manufacturing know-how with the right polymer materials, you can develop stretch hood solutions your customers can trust.



- Starflex GM1810BA mLLDPE Skins
- Adflex Q100F Blend
- Starflex GM1810BA mLLDPE Skins

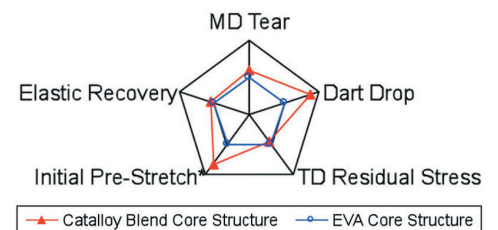
- LyondellBasell formulated solutions offer increased toughness properties compared to typical stretch hood structures
- They enable consistent and reliable performance while exhibiting required stress retention and elastic recovery

Select LyondellBasell resins for your stretch hood formulations. Deliver the benefits of this advanced and proven polymer solution.

Why Customers Prefer Adflex Q100F For Their Stretch Hood Films

- High elasticity and stretchability
 - Versatile film design for broad range of end uses
 - Vertical stretch for 3D stability
 - Broader operating window to meet the demands of high-speed wrapping processes
- Robust puncture and tear strength
 - Improved load and product protection
 - Wider product size range from fixed extrusion assets
- High elastic recovery
 - Secure, tight loads with good aesthetics
- Compatible with polypropylene and polyethylene
 - Application-specific, multilayer film design options
- Homogenous reactor polymer
- Easy processability and reliable performance
- High and low-temperature resistance
 - Wider seasonal and geographical performance
- Lower density, higher stretch, and the right thickness combine to deliver a cost-competitive packaging solution

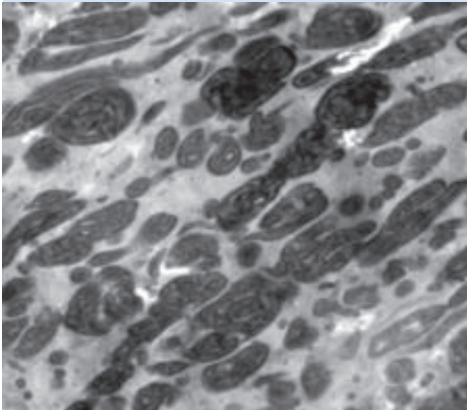
Films Produced With Catalloy Process Resins Provide Superior Elastic Recovery And Toughness At High Pre-stretch



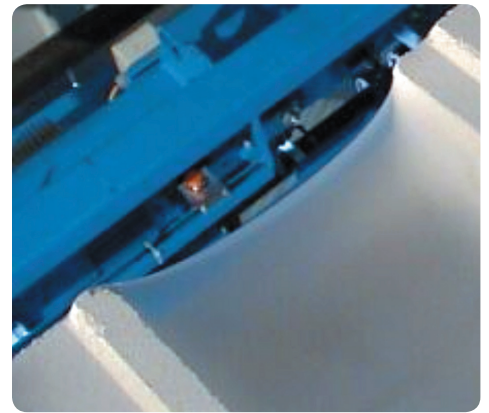
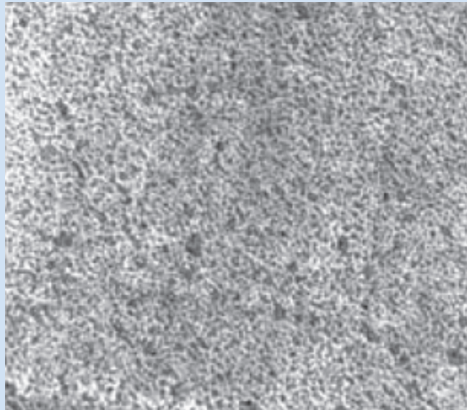
Consistent Processing And End-Use Properties Through Uniform Dispersion Of Amorphous Rubber Phase

Pictured below are transition electron micrographs of *Adflex* Q100F and a mechanically compounded grade. Note the uniform dispersion of the amorphous rubber phase (dark areas) in the *Adflex* material, which yields more consistent processing and end-use properties.

Mechanical compound grade



***Adflex* Q 100F TPO reactor grade**



Adflex resins are alloys of rubber and polypropylene produced simultaneously in the reactor during polymerization. Manufactured using a proprietary *Catalloy* process technology from LyondellBasell, the resins feature uniformly dispersed rubber within the crystalline matrix, enabling control of key properties.

Starflex products are pelletized mLLDPE resins for applications that require maximum strength and toughness together with outstanding optical properties.

About LyondellBasell

LyondellBasell (NYSE: LYB) is one of the world's largest plastics, chemical and refining companies. The company manufactures products at 59 sites in 18 countries. LyondellBasell products and technologies are used to make items that improve the quality of life for people around the world including packaging, electronics, automotive components, home furnishings, construction materials and biofuels. More information about LyondellBasell can be found at www.lyondellbasell.com.

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