

## QENOS ALKAMAX® DELIVERS LIGHTER, TOUGHER ICE BAGS

**Packaging ice can be tough. The practical requirements for PE film used in ice bags are multiple, including the need for:**

1. Bags to resist breakage in cold conditions
2. Excellent sealability properties
3. Cost savings in processing and transportation

### THE CHALLENGE

Cold conditions can be a challenge. Plastic ice bag film needs to deal with low temperature, high impact and rough handling all the while resisting unintentional breakage.

### HOW DID QENOS HELP?

Alkamax® PE with its metallocene polymer architecture delivers a thinner, down-gauged film, with excellent clarity and lower overall cost, proving 'less is more' when it comes to the latest plastic films.

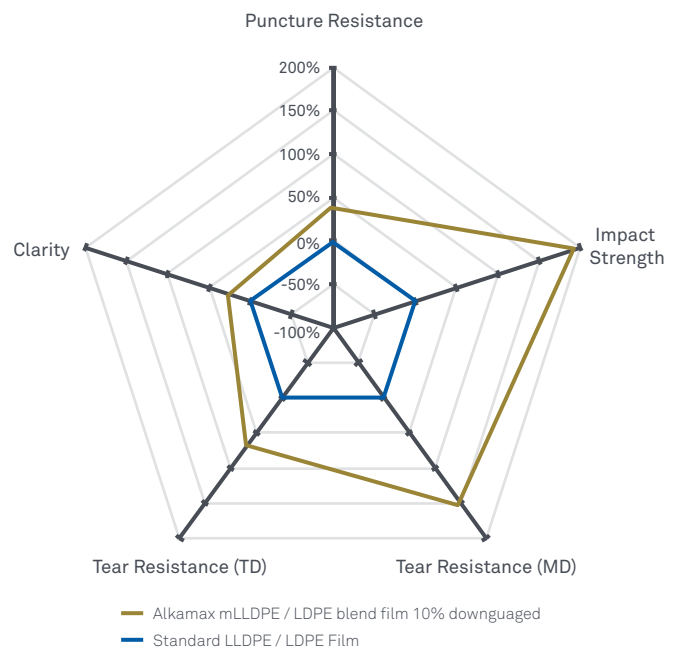
Following extensive development and product evaluation, Qenos Alkamax® metallocene catalysed polyethylene grades are now in increasing use in the Australian PE film market.

The key features of PE films made from Qenos Alkamax® mLLDPE include:

- ✓ Excellent sealing properties
- ✓ Favourable stiffness versus toughness
- ✓ Excellent processability for high throughput and thin gauge films
- ✓ Coex or monolayer structure

Ice bags made from Alkamax® mLLDPE have excellent stiffness and toughness.

This allows the PE film to be down gauged while still improving the performance characteristics.



### Qenos eXsource

eXsource - Qenos' specialty distribution arm - offers a direct channel to a range of local and international specialty polymers. eXsource supplies a wide range of polymers manufactured by Qenos, Bluestar, LyondellBasell and others. More at: [www.exsource.com](http://www.exsource.com).



## RESULTS

- **Reduction in transport costs and waste**

Because the ice bag is thinner, it uses less material to produce and consumes less fuel to transport. There is less packaging waste by weight, reducing the overall environmental impact.

- **Exceptional sealing performance**

PE film customers know that sealability of the film is critical – so the film can run effectively and efficiently through form, fill and seal packaging lines. Here again the performance of PE films made from Qenos Alkamax® mLLDPE is excellent. Compared to conventional LLDPE, Alkamax seals at lower temperatures and over a wider range. The broad sealing window and high seal strength deliver improved 'hot tack', superior package integrity and reduced risk of sack bursting.

- **Improved processability and performance**

In addition to exceptional mechanical properties, Alkamax delivers excellent processability. Alkamax resins can be extruded more cost effectively with lower head pressure, lower motor load, and good bubble stability leading to uninterrupted operations.

The combination of a thinner film with lower operating costs all adds up to a more cost effective ice bag.

### More info

Alkamax mLLDPE Grades  
Alkamax brochure

### Contact

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QENOS ALKAMAX® MLLDPE OFFERS A  
UNIQUE BALANCE OF STIFFNESS VERSUS  
TOUGHNESS, AND IS REGULARLY  
BLENDED WITH OTHER PE GRADES TO  
OPTIMISE EXISTING FILM STRUCTURES



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