



HiDURA™

SEGMENT PROFILE

HiDura™ PTR resins for films

A puncture- and tear-resistant nylon for films



Our Grades

Food applications

Designed to protect foods and extend shelf life, HiDura PTR grades’ high puncture-resistant properties ensure food products reach customers in perfect condition. Our grades meet regulatory requirements for food contact safety while maintaining pleasing aesthetics with a soft-touch feel.



High-temperature applications

Heat stabilized for prolonged exposure at high temperatures, HiDura PTR resins are ideal for cooking bags, autoclave vacuum bags and other high-heat applications.



Industrial applications

Industrial packaging made with HiDura PTR grades have the strength, reliability and performance required for handling and shipping. And HiDura PTR resins’ excellent creep resistance make them ideal for air pillows. Broken bags and damaged goods are things of the past.



Category	Industrial and food packaging films				Heat stabilized films	
Product →	842A	833C	840F	833F	75HB	75HF
Food contact compliant →	●	●	●	●	●	
Melting point →	255C	235C	220C	220C	245C	220C
Applications ↓						
Autoclave films					●	●
Blown monolayer and multilayer films	●		●		●	●
Cast and multilayer films	●	●		●		
Novel BOPA films		●		●		

Clearly Superior

It's estimated that 40% of food and 11% of products never make it to the consumer because of spoilage or damage. Some think the answer is more packaging. At Ascend, we think the answer is better packaging.

Our patented HiDura™ PTR resins for films are puncture- and tear-resistant – minimizing the likelihood of product or food damage throughout the supply chain. HiDura PTR resins give packaging designers the flexibility to downgauge or maintain their current film thickness and increase durability.

Benefits at a Glance

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- High puncture resistance
- High tear strength
- Clarity and gloss
- Improved heat deflection temperature
- High strength and ductility
- Suitable for blown, cast and oriented film processes

Designed for sustainability

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HiDura PTR resins provide package producers the flexibility to downgauge while maintaining film performance.

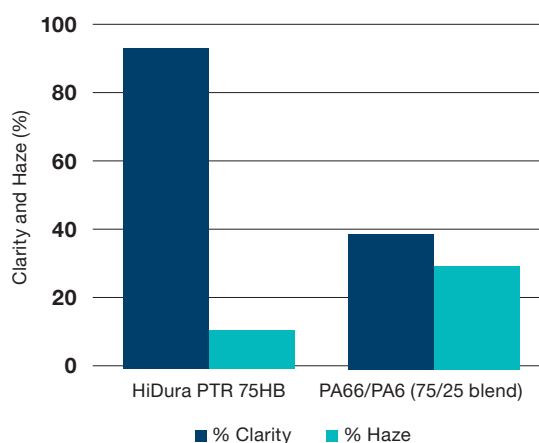
HiDura PTR resins are easily processed on traditional film manufacturing equipment including blown, cast and biaxial-oriented film processes.



A flexible solution, HiDura PTR grades are compatible with other resins used in multilayer films including tie layers, barrier layers and polyolefins. With tailored crystallization rates, our grades offer improved optics over a wide range of heat deflection temperatures.

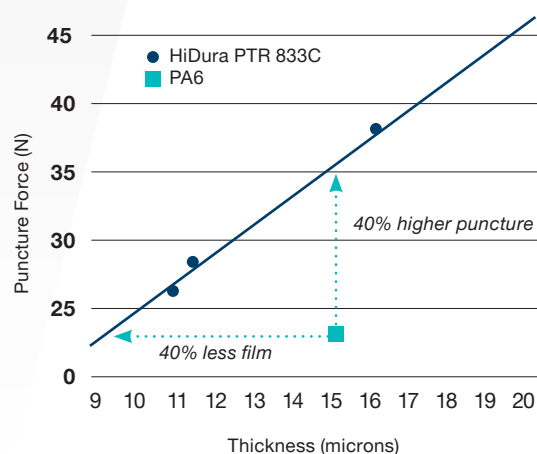
HiDura PTR replaces PA66/PA6 Blends

HiDura PTR 75HB resin produces more homogenous film with better aesthetics, while increasing throughput rates by 30%.



Oriented film applications

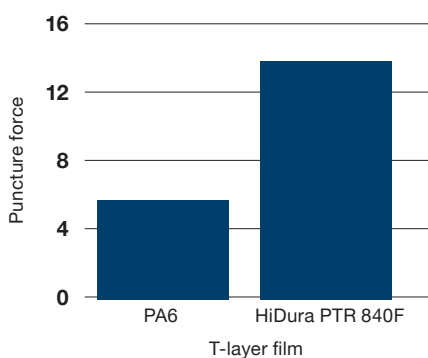
Biaxially oriented films made with HiDura PTR resins can provide up to 40% higher puncture resistance than conventional BOPA.



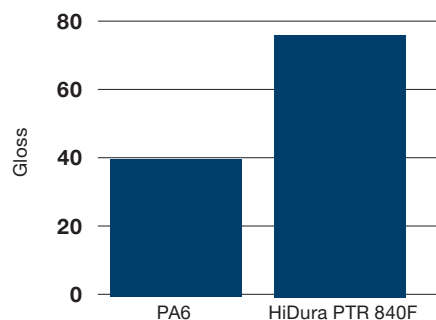
Multilayer blown film applications

In multilayer films, HiDura PTR resins improve puncture resistance and film aesthetics. HiDura PTR resins can be used in various film structures and optimized to meet your performance requirements.

Mechanical



Aesthetics



About Ascend

Ascend Performance Materials makes high-performance materials for everyday essentials and new technologies. Our focus is on improving quality of life and inspiring a better tomorrow through innovation. We make the plastics, fabrics, fibers and chemicals used to make safer vehicles, cleaner energy, better medical devices, smarter appliances and longer-lasting apparel and consumer goods. We are committed to safety, sustainability and the success of our customers and our communities.

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HIDURA™



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