ExxonMobil

Unexpectedly affordable foamable polypropylene

Energy lives here™

Challenge reality and rethink what's possible with foamable Achieve™ Advanced PP

Recyclable food and beverage packaging
Industrial packaging
Construction products
Automotive components

Eliminate trade-offs and unlock new, sustainable opportunities without compromising on performance. Be among the first to unlock opportunities in high-volume applications that benefit from low density and excellent insulation while maintaining stand-out polypropylene properties.

Key benefits

Affordable
Requires less material than solid structures and runs well on a wide range of foaming equipment.

Recyclable*
Allows post-industrial and post-consumer* recycling, reducing footprint and cost without compromising product integrity.

Lightweight
Reduces material requirements. Maintains rigidity, even at low densities – more material made with less polymer for lighter weight and reduced footprint.

Thermal performance
Offers dimensional stability and insulation in extreme temperatures.

Durable
Resists moisture and chemicals for long-lasting performance.

Sound dampening
Dissipates unwanted noise for a comfortable environment.

*Recyclable in those communities with appropriate collection and recycling programs.

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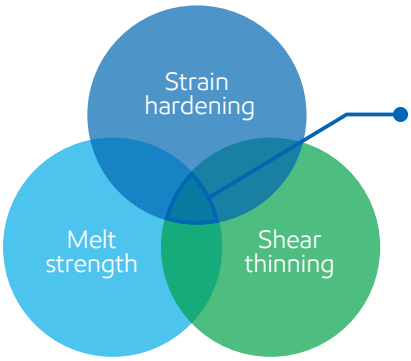
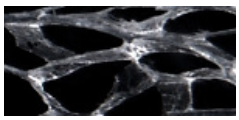
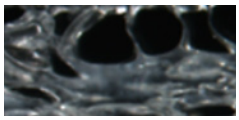
Performance polymer attributes enable excellent foam consistency at low densities



Magnified foam images

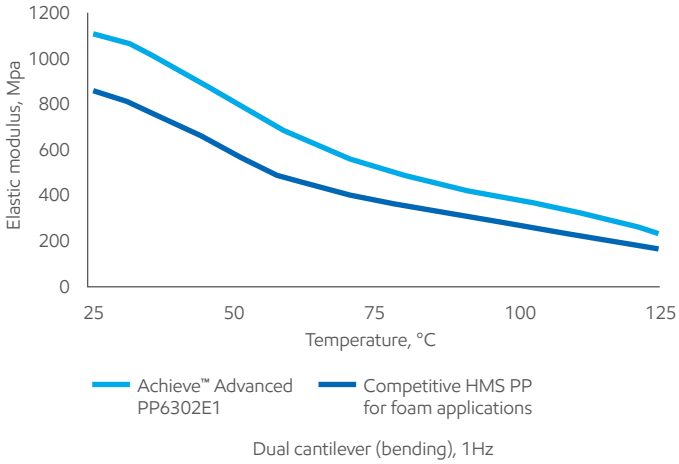


Achieve™ Advanced PP6302E1 foam with consistent cell morphology

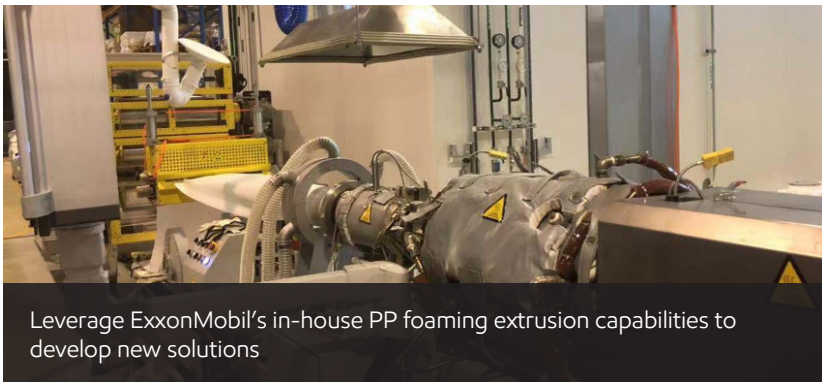


Competitive hPP foam with inconsistent cell morphology

Up to 30% more stiff for better performance with less material



Test performed in BTEC in Rheology Lab under WOMS # BCT202003.0001-04.



Leverage ExxonMobil's in-house PP foaming extrusion capabilities to develop new solutions

Global technical support available

- Shanghai Technology Center - Shanghai, China
- European Technology Center - Brussels, Belgium
- Americas Technology Center - Baytown, USA

Key properties	Typical value (English)	Typical value (SI)	Test based on
Melt mass-flow rate (MFR) (230°C/2.16 kg)	1.9 g/10 min	1.9 g/10 min	ASTM D1238
Flexural modulus 1% secant 0.051 in/min (1.3 mm/min) 0.51 in/min (13 mm/min)	 296000 psi 340000 psi	 2040 MPa 2340 MPa	 ASTM D790A ASTM D790B
Melt strength (374°F (190°C))	40.2 cN	40.2cN	ExxonMobil method
Deflection temperature under load (DTUL) at 66psi - unannealed	253 °F	123 °C	ASTM D648

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB)

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed product stewardship information, please contact Customer Service.

Use Achieve™ Advanced PP to challenge reality in foamed polypropylene parts.

Contact us for more information:
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55124

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