



Energy lives here™

Unexpectedly affordable foamable polypropylene

Challenge reality and rethink what's possible in insulated food and beverage packaging with foamable polypropylene

Key benefits



Affordable

Requires less material than solid structures and runs well on modified polystyrene foam 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 density and allows for less plastic usage.



Thermal insulation

Offers excellent insulation at a broad range of temperatures.



Chemical resistance

Resists moisture, grease and common detergents for long-lasting performance.

Eliminate trade-offs and unlock new, sustainable opportunities without compromising on performance. Manufacture foamed polypropylene parts in high-volume applications that benefit from low density and excellent insulation while maintaining standout polypropylene processing.

Achieve™ Advanced PP6302E1 can be used to manufacture insulated food and beverage packaging such as insulated cups, lids, trays, and clamshells on modified polystyrene foam equipment.



Benefits of Achieve Advanced PP in insulated food and beverage packaging

Converters	Food packagers	Consumers
<ul style="list-style-type: none"> • Less raw material required • Affordable • Reliable supply • Recyclable 	<ul style="list-style-type: none"> • Stiff at high temperatures • Tough at low temperatures • Preserves freshness • Resists moisture, grease and common detergents 	<ul style="list-style-type: none"> • Microwavable • Preserves freshness • Resists water, oil and grease • Reusable and recyclable*

*Recyclable in those communities where appropriate collection and recycling facilities exist.

Rethink what's possible in insulated food and beverage packaging with Achieve™ Advanced PP

	Achieve™ Advanced PP6302E1	Polystyrene
Recyclability*	●	●
Regulatory concern	●	●
Insulation	●	●
Density reduction	●	●
Microwaveability	●	●
Water resistance	●	●

*Recyclable in those communities where appropriate collection and recycling facilities exist.

Key properties (bulk resin)	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, HPPB)

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Find out how we can help you optimize your polypropylene converter operation at exxonmobilchemical.com/foamablepp.



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