

Remarkably rigid containers, cups and tubs

Energy lives here™

Challenge reality and rethink what's possible in packaging design.



- High melt strength
- 15% downgauging
- 7% faster cycle time
- Reusable and widely recyclable

Offering high melt strength, Achieve™ Advanced polypropylene (PP) enables the economic production of thinner rigid packaging that is easier to thermoform. The high stiffness provides downgauging opportunities while excellent processing can improve cycle times and offer higher output.

Create new packaging designs

Through collaboration, Achieve Advanced PP enables customers to **create new packaging designs** that are remarkably strong. High stiffness and increased filler loading contribute to packaging solutions - that **do more with less**.

Packaging made with Achieve Advanced PP is microwaveable, dishwasher safe, reusable and widely recyclable, and is ideal for:

- **Retail food packaging** – like yogurt and baby food cups and containers at supermarket stores
- **Food service containers** – like takeout containers, fast food cups and hot drink lids at convenience stores and restaurants

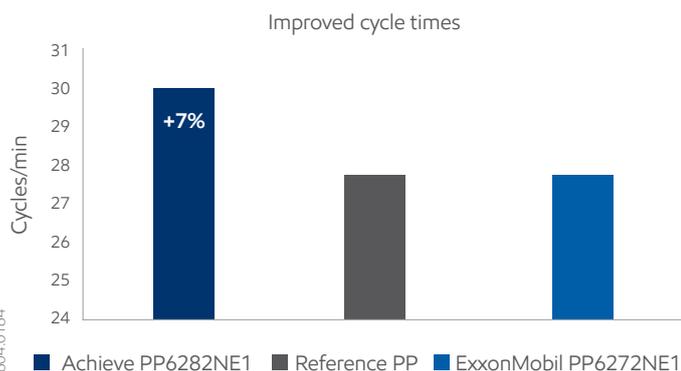
Enhanced processing

In thermoforming applications, the unique molecular design enables faster forming cycle times to maximize throughput. In deep draw applications, the high melt strength helps to minimize sag, resulting in fewer part defects and sheet variations.

With Achieve Advanced PP, converters can downgauge wall thickness, boost part stiffness and, increase regrind and filler components.

Figure 1:

Selected processing data for Achieve™ PP6282NE1, the reference ExxonMobil™ PP6272NE1 and a competitive high stiffness grade on a single cavity tool.

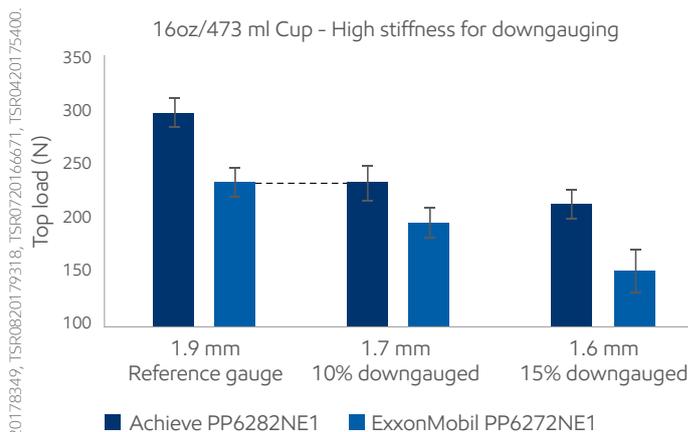


Data generated on a Gabler® M98 Maxx thermoforming machine with single cavity, 16 ounce cup tool from preformed sheet of 1.6 mm gauge and 750 mm width. Process parameters were optimized for each sample to determine maximum cycle speeds which maintained cup quality.

Ref: WOM5 BCT201804.0184

Figure 2:

Selected property data for Achieve PP6282NE1 and the reference ExxonMobil PP6272NE1. Inverted cup top load testing method based on ASTM D2659.



Ref: TSR0720178349, TSR0820179318, TSR0720166671, TSR0420175400.



Grade	MFR (230°C/2.16 kg) - g/10 min	Flexural modulus 1% secant (MPa / psi)	Notched Izod impact (23°C) (J/m ft-lb/in)	HDT at 66 psi unannealed (°C/°F)
Achieve PP6282NE1	1.8	2020 / 293000	44 / 0.83	116 / 241
	ASTM D1238	ASTM D790A	ASTM D256	ASTM D648

Values given are typical and should not be interpreted as specifications. Data generated by or on behalf of ExxonMobil Chemical. Test methods are based on the ASTM standards.

Use Achieve™ Advanced PP to challenge reality in packaging design.

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