



**Polypropylene**  
for Rigid Packaging  
Applications



## **Thin Wall** Injection Molding

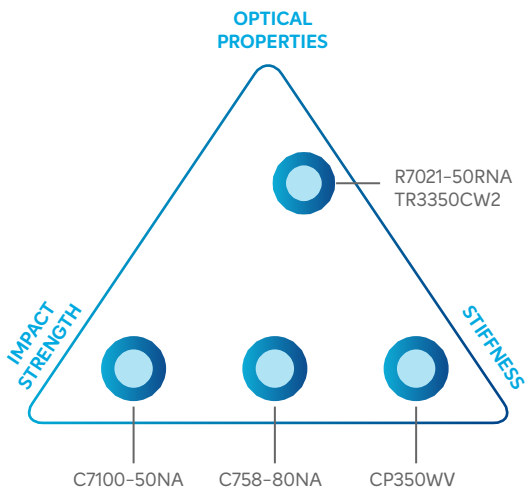
*Braskem targets joint development programs with our clients that enable them to meet and exceed stringent market demands.*



## New Trend: Thin Wall Injection Molded Packaging

Some of the potential applications that thin wall packaging can be used for include: pill vials, ice cream tubes, deli containers, ready-made packaged foods, and butter or ice cream tubs.

*Benefits in these applications are reduced source consumption, shorter cycle times, high clarity, and good organoleptics.*



Family	Grade	MFR (g/10min)	Flex Mod (Kpsi)	N. Izod (ft-lb/in)
HOMO	CP350WV	35	240	0.5
HECO	C7100-50NA	50	140	2.3
	T16550WV	55	190	1.8
	T16800WV	80	155	2.3
	C758-80NA	80	200	1.4
RACO	TR3350CW2	31	155	1.0
	RP250	35	170	0.9
	R7021-50RNA	50	155	1.0

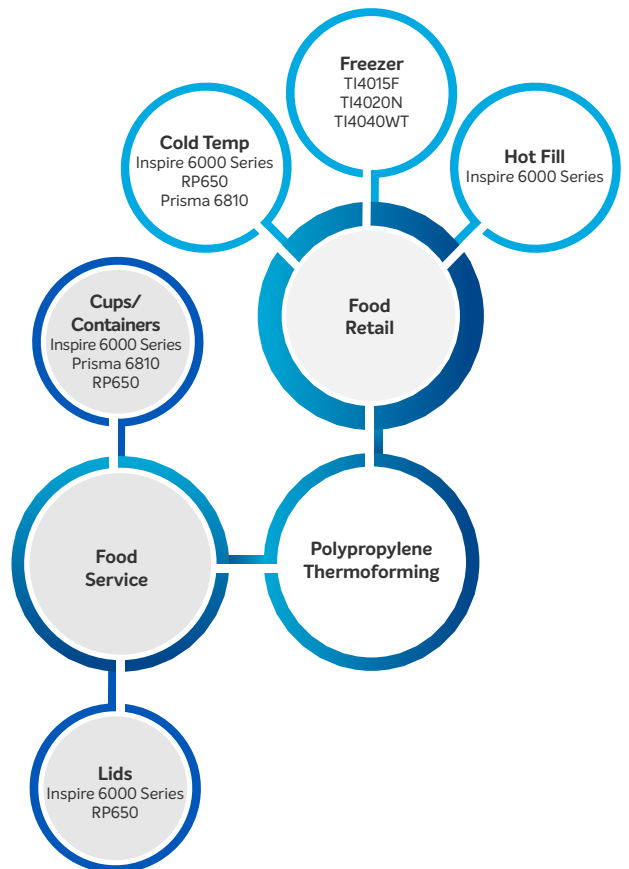
Thermoformed packaging plays a vital role in our daily lives, protecting foods such as dairy, shelf stable, and frozen products.

# ▶ Thermoforming



Maintaining the quality and flavor of foods, while providing safe, lightweight packaging that offers freezer to microwave ease-of-use and convenience are essential requirements.

Braskem America has demonstrated its commitment to the thermoforming market with a wide range of polypropylene resins offering exceptional stiffness, high heat distortion resistance, and lightweighting potential without sacrificing sidewall stiffness.



## Inventory Management Simplification

Braskem thermoforming grades allow clients to utilize a single resin for a wide range of applications that require varying levels of stiffness, clarity, or impact, creating a simplified inventory approach.

- Single grade inventory
- Reduced storage complexity
- Simple order processing
- Blends well with other resins

## Performance Enhancements

In thermoforming applications, Braskem resins supply a balance of performance characteristics:

- Increased melt strength resulting in more uniform wall thickness distribution
- Opportunities for downgauging and part weight reduction
- Improved impact properties
- Outstanding stiffness, providing increased top load properties
- Exceptional aesthetics and color
- Opportunities for intermaterial replacement



Family	Grade	MFR (g/10min)	Flex Mod (Kpsi)	N. Izod (ft-lb/in)	Features and Benefits
HOMO	Inspire 6021N	2.0	255	0.6	High performance nucleated homopolymer with good physical properties
	Inspire 6021WN	2.5	250	0.7	Good processability, contact clarity, nucleated, high flexural modulus
	Inspire 6023N	2.0	250	0.6	High performance nucleated homopolymer with good optical and physical properties
	Inspire 6023PN	2.5	225	0.7	High performance nucleated homopolymer with good balance of clarity and physical properties
	Inspire 6025N	2.5	300	0.7	High performance, high crystalline homopolymer with exceptional stiffness and good optical properties
HECO	T14015F	1.6	175	NB	Superior balance of stiffness and impact strength
	Prisma 6810	2.0	190	NB	Next generation clear impact copolymer designed for a great balance of stiffness, toughness, and clarity
	T14020N	2.0	220	NB	Extra high Izod impact, excellent low temperature drop impact, good organoleptic properties, nucleated
	T16035NB	3.8	140	NB	Extra high Izod impact, superior low temperature drop impact
RACO	RP650	2.0	170	1.2	High flexural modulus, next generation clarifier providing superior aesthetics and enhanced optical properties
	INSPIRE 6123EN	2.0	190	1.0	High performance nucleated polypropylene with great balance of clarity and physical properties

*Braskem understands the importance of a competitive and dependable supply of high quality products for the future.*

## **SURPASSING INDUSTRY STANDARDS WITH HIGH PERFORMANCE, SUSTAINABLE POLYPROPYLENE**

Braskem's broad polypropylene (PP) portfolio meets the needs of today's sophisticated rigid packaging applications. Benefits from the proven performance that helps our clients add value to a wide range of innovative downstream solutions include:

- Reduced wall thickness enables use of less raw material in achieving lightweighting solutions and supporting sustainability initiatives
- Unique balance of stiffness, toughness, and flowability offers exceptional competitive advantages for multiple end uses and objectives
- Breadth of portfolio allows clients to deliver on wide reaching product development initiatives



Marcus Hook, Pennsylvania

## ACCELERATING INNOVATION AND SPEED TO MARKET

Multiple technologically integrated centers in the United States, Brazil, Mexico and Germany employ more than 300 specialized professionals who collaborate with clients on joint product and applications development.

These state-of-the-art facilities feature:

- On-site specialized analytical labs
- Pilot-scale equipment that replicates client production environments for true-to-life polymer testing
- Compounding, injection molding, sheet, foaming, and thermoforming applications equipment that create innovative solutions to meet client needs

## CLIENT DRIVEN INNOVATIVE FOCUS

Applications often come along that require new levels of performance. Braskem has the capability to provide the technical expertise and innovation that meets your product differentiation requirements.

## RELIABLE, RESPONSIVE SERVICE AND SUPPLY

We focus on being responsive to our North American clients' needs with service levels and supply security unmatched by the competition. At the heart of this is geographic diversity that provides reliable sourcing, with production facilities in Pennsylvania, West Virginia, and Texas.



Neal, West Virginia

With a global vision of the future oriented toward people and sustainability, Braskem is committed to contributing to the value chain for strengthening the Circular Economy.

The petrochemical company's almost 8,000 team members dedicate themselves every day to improving people's lives through sustainable chemicals and plastics solutions. Braskem has an innovative DNA and a comprehensive portfolio of plastic resins and chemical products for diverse segments, such as food packaging, construction, manufacturing, automotive, agribusiness, healthcare, and hygiene, among others.

With 40 industrial units in Brazil, the United States, Mexico, and Germany, and exports its products to clients in more than 70 countries.

Braskem America is an indirect wholly owned subsidiary of Braskem S.A. headquartered in Philadelphia. The company is the leading producer of polypropylene in the United States, with five production plants located in Texas, Pennsylvania, and West Virginia, an Innovation and Technology Center in Pittsburgh, and operations in Lexington, MA focused on leveraging groundbreaking developments in biotechnology and advanced materials.

For more information, visit [www.braskem.com/usa](http://www.braskem.com/usa).

