



Formosa Plastics®

Formolene® Polypropylene Caps & Closures

Quality, Value and Performance

Discover Formolene® Polypropylene

When success is essential, Formosa is your quality choice

Formosa has served the Caps and Closures market for years with high quality, innovative products. Our broad, growing and ever-more sophisticated portfolio of Formolene® homopolymer, copolymer and random copolymer polypropylene resins will meet the requirements of your most demanding applications, enabling the innovative designs necessary to meet your customers' most challenging requirements.

Whether you produce caps and closures for cosmetics, foods, spices, condiments, beverages or other products, quality, value and performance are critical. Our optimized technologies help to enable your success.

Formosa has continued a program of significant investment in building, expanding and streamlining our production facilities to bring the highest quality products to market.

The result is a manufacturing base that is among the newest, most efficient and technologically advanced in the industry.

Quality, value, and performance, backed by service second to none, this is our commitment to your success.



Delivering Value

Our broad line of optimized grades, with their inherent processability and fast cycle times, allow faster cap production and container filling/assembly. The result:

- Cycle time improvements from optimized additive formulations and easy-flow polymers;
- Productivity gains enabled by products of high quality and consistency;
- Reduced energy consumption in your facilities;
- Reduction of material usage through enhanced polymer properties.



Defining Performance

Our broad line of optimized polypropylene grades will meet your most innovative application requirements. We bring:

- Tailored copolymers, random copolymers and homopolymers that offer a range of properties to meet in-use performance requirements;
- Enhanced appearance;
- Dimensional stability for a perfect fit;
- Excellent colorability;
- Minimal blushing;
- Stiffness and toughness to resist breakage and enhance protective function;
- FDA compliance.



Formosa's Family of Optimized Resins

Applied Polymer Innovation



Household
Chemicals



Personal Care



Food



Beverages



Condiments



Spices

Products & Technical Specifications (Selected Materials)

GRADES	5140H	5140N	4100N	4142N	4142T	2306N	2315N	6535A	6375N
MATERIAL TYPE	Homopolymer	Homopolymer	Homopolymer	Homopolymer	Homopolymer	Copolymer	Copolymer	Copolymer	Copolymer
MELT FLOW	2	12	12	12	35	6	15	35	75
TENSILE STRENGTH	5,400	5,100	5,100	5,700	5,800	4,350	4,100	3,350	4,200
FLEX MODULUS	260	210	200	260	260	210	200	145	200
ELONGATION	5	9	9	7	7	9	6	7	5
ROCKWELL	114	105	105	106	115	110	115	104	106
NOTCHED IZOD @ 73	0.7	0.6	0.5	0.8	0.5	5.0	1.6	2.5	1.5
FDA	Y	Y	Y	Y	Y	Y	Y	Y	Y
ANIMAL DERIVED MATERIAL FREE	Y	Y	Y	Y	Y	Y	Y	Y	Y
NUCLEATION	Y			Y	Y	Y	Y		Y
ANTISTAT		Y		Y	Y	Y	Y		
MOLD RELEASE	Y					Y			
APPLICATION	Compression Molding Carbonated Beverage	Food Cosmetic Personal Care Household Chemicals	Food Cosmetic Personal Care Household Chemicals	Food Cosmetic Personal Care Household Chemicals	Food Cosmetic Personal Care Household Chemicals	Injection/ Compression Carbonated Beverage	Food Cosmetic Personal Care Household Chemicals	Food Beverage Personal Care Household Chemicals	Food Beverage Personal Care Household Chemicals

Need More? Just Ask.

At Formosa, we're committed to providing you with innovative products, consistent quality, unsurpassed service and reliable on-time/every-time delivery.

Our technical teams ensure you get the products you need and the consistent quality and run performance you need — every time.

Our service teams are determined to help you find ways to improve your business by optimizing performance, improving consistency and helping you to get the most out of our products.

Our private rail fleet is the largest in the industry. You can monitor the status of your orders and the exact locations of your railcar deliveries online — 24/7/365.

If you need more, just ask. After all, we're your partner.

Our Commitment

Formosa Formolon® polyvinyl chloride quality and consistency, together with our technical service, provide excellent value and produce components that consistently perform as required.

- **Quality and Consistency** – We will deliver resins that meet or exceed customers' requirements.
- **Performance** – Help customers produce consistent, valued components that perform to specifications for durability, appearance and safety.
- **Value** – Provide excellent per unit component value – from resin grade selection, purchase and delivery to optimized processability and final component production.
- **Technical Service** – Provide top-notch, responsive technical service that develops prompt, accurate solutions.

Your Partner for Polymer Solutions

With corporate headquarters in Livingston, New Jersey, Formosa Plastics Corporation, U.S.A. owns and operates three vertically integrated chemical manufacturing subsidiaries located in Delaware City, Delaware; Baton Rouge, Louisiana; and Point Comfort, Texas. Through affiliated facilities located in Ningbo (China), Mailiao (Taiwan) and Linyuan (Taiwan), we can meet international demands.

Our business operations include the production of polyethylene, polypropylene, suspension and dispersion polyvinyl chloride, chlor-alkali and olefins.

For more information about Formosa Plastics' products or to discuss a custom application for a no obligation quote, visit www.fpcusa.com or speak with your company representative directly by calling 888.372.8723.

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MANUFACTURING AND FITNESS FOR PURPOSE, other than that the material conforms to the applicable current Standard Specifications. Statements herein, therefore, should not be construed as representations or warranties. The responsibility of FORMOSA PLASTICS CORPORATION, U.S.A. for claims arising out of breach of warranty, negligence, strict liability, or otherwise is limited to the purchase price of the material. Statements concerning the use of the products or formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

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