



**Formosa Plastics®**

## **Formolene® HDPE Blow Molding**

Quality, Value and Performance

## Discover Formolene® High Density Polyethylene for Blow Molding

When success is essential, Formosa is your quality choice.

Formosa Plastics' Formolene® High Density Polyethylene (HDPE) resins are available with varying melt indexes, densities and additive packages for producing containers via the blow molding extrusion process.

### Formolene® HB6007

Formolene® HB6007 is a leading homopolymer HDPE resin used in the juice, water and dairy industry to produce strong, lightweight bottles with the low taste and odor properties that are critical to these industries. The right balance of top load and impact strength make it the best resin choice for producing one-gallon, half-gallon, quarter-gallon and single-serve containers.

### Formolene® HB5502 and HB5202

The Formolene® HB5502 and HB5202 series of multipurpose resins is used to blow mold everything from household industrial chemical bottles, to toiletry and cosmetic bottles, to health and medical containers and various types of food containers. These resins' excellent stiffness and environmental stress cracking resistance (ESCR) properties have made them some of our most popular products.

### Formolene® HL5010



The Formolene® HL5010 series of resins are high load melt index resins (HLM), used to produce large containers and parts by both the blow molding or sheet/thermoforming production processes. These resins provide excellent high load melt strength during extrusion, as well as excellent rigidity and strength in the final products.



All Formolene® High Density Polyethylene blow molding resins meet appropriate Food and Drug Administration (FDA), Underwriters Laboratories (UL) and National Sanitation Foundation (NSF) requirements.

# Optimized Resins for Blow Molding

## Applied Polymer Innovation



Formosa Plastics®



Yogurt Bottles



Toiletry Bottles



Household & Industrial  
Chemical Bottles



Milk Bottles



55-Gallon Drums

Grades	ASTM Test Method	Units English/SI	Homopolymer	Copolymers				
			HB6007	HB5502B	HB5502A/F	HB5502Z	HB5202A/B	HL5010
Melt Index	D1238	2.16 g/10 Min.	0.70	0.35	0.35	0.35	0.35	-
High Load Melt Index (HLMI)		21.6 kg/10 Min.	-	-	-	-	-	10.00
Density, g/cc	D1505		0.964	0.955	0.955	0.955	0.952	0.949
Tensile Yield Strength 2" (50 mm) per min.	D638 Type IV	psi. MPa	4,400 30	4,000 28	4,000 28	4,000 28	3,900 27	3,600 25
Ultimate Elongation 2" (50 mm) per min.		%	>300	>600	>600	>600	>600	>600
Brittleness Temperature	D746	°F	<-180	<-180	<-180	<-180	<-180	<-131
		°C	<-118	<-118	<-118	<-118	<-118	<-91
Flexural Modulus	D790	psi. MPa	240,000 1,654	200,000 1,378	200,000 1,378	200,000 1,378	190,000 1,309	170,000 1,172
		Environmental Stress Crack Resistance (ESCR)						
Condition A, F <sub>50</sub> (100% Igepal)	D1693	Hours	17	45	45	45	50	>600
Condition A, F <sub>50</sub> (10% Igepal)			10	35	35	35	50	>200
Comments			-	-	"A" - Standard Antistat "F" - Food Grade Antistat	Tailored for Injection Blow Molding Process	"A" - Standard Antistat "B" - Standard Additive	-
Applications / Container Types			Juice, Water and Dairy Bottles	Household and Industrial Chemical Bottles	Motor Oil Bottles, Olive Oil Bottles, Shampoo Bottles	Toiletry Bottles and Pharmaceutical Bottles	Household and Industrial Chemical Bottles Requiring Higher ESCR	Gas Tanks, 55-Gallon Containers, Chemical Tanks

## 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 Formolene® polypropylene 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](http://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.

©2018 Formosa Plastics Corporation, U.S.A.



**Formosa Plastics Corporation, U.S.A.**  
9 Peach Tree Hill Road  
Livingston, NJ 07039-5702

**P** 888.372.8723  
**W** [www.fpcusa.com](http://www.fpcusa.com)