



Formosa Plastics®

**Formolene® Polyethylene
Blow Molding Applications**

Quality, Value and Performance



Discover Formolene® High Density Polyethylene for Blow Molding

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, quartergallon 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 (HLMI), 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 Sanitary Foundation (NSF) requirements.





Formolene® HB6007



Formolene® HB5502Z



Formolene® HB5502F

Optimized Resins for Blow Molding

Applied Polymer Innovation



Milk Bottles



Household & Industrial
Chemical Bottles



Toiletry Bottles



Yogurt Bottles



55-Gallon Drums

Homopolymer Copolymers

Grades	ASTM Test Method	Units English/SI	HB6007	HB5502B	HB5502F	HB5502Z	HB5202A/B	HL5010
Melt Index	D1238	2.16 g/ 10 Min.	0.35	0.35	0.35	0.35	0.35	-
	D1238	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.	D638 Type IV	%	>300	>600	>600	>600	>600	>600
Brittleness Temperature	D746	°F °C	<-180 <-118	<-180 <-118	<-180 <-118	<-180 <-118	<-180 <-118	<-131 <-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 B, F50 (100% Igepal) - Condition B, F50 (10% Igepal)	D1693	Hours	17 10	45 35	45 35	45 35	50 50	>600 >200
Comments			-	-	"A"- Standard Antistat "F"- Food Grade Antistat	Tailored for Injec- tion Blow Molding Process	"A"- Standard Antistat "B"- Standard Ad- ditive	-
Applications/Container Types			Juice, Water and Dairy Bottles	Household and Industrial Chemical Bottles	Motor Oil Bot- tles, Olive Oil Bottles, Sham- poo Bottles	Toiletry Bottles and Pharmaceu- tical Bottles	Household and Industrial Chemical Bottles Requiring Higher ESCR	Gas Tanks, 55-Gallon Containers, Chemical Tanks

Our Commitment to Our Customers

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.



Sedex is a world leader in responsible sourcing. They empower companies with technology and insights to implement practices and policies to build a responsible business and supply chain.



Ecovadis's purpose is to guide all companies toward a sustainable world and act as a North Star to ensure their growth is providing positive impact for our planet and society.



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

Our Commitment to Sustainability

Formosa Plastics Corporation, U.S.A. is committed to the United Nations' 17 Sustainable Development Goals. The information provided on our website is the product of a thorough and introspective consideration of Formosa's role in supporting these goals.

Formosa's Sustainability information reflects our commitment to doing our part both as a member of the global economy and as an engaged corporate citizen at the local level. No matter how large or how small, each of us can make a difference as we seek a better world in the present and for the future.

To learn more about our sustainability initiatives, please visit www.fpcusa.com/sustainability.





Formosa Plastics®

The information and recommendations in this publication are, to the best of our knowledge, reliable. Determination of the suitability of the products for any particular purpose shall be the responsibility of the buyer or user. Formosa Plastics Corporation, U.S.A. only warrants that the products shall conform with the applicable Standard Specifications Statement herein. All other warranties, express, or implied, are expressly disclaimed.