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 Fomolene® HB5502 and HB5202 series of multipurpouse 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 Fomolene® 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

Products & Technical Specifications (Selected Materials)

			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 Modulas	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 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-Gal-lon 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

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

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

At Formosa Plastics, we firmly believe that we must do our part to protect the environment and advance social programs in the communities where we live and work.

We are committed to achieving our vision and enhancing our impact locally and globally through the United Nations Sustainable Development Goals (SDGs). In alignment with the Affordable & Clean Energy SDG, Formosa Plastics is converting 100+ vehicles to electric and hybrid. We are also installing more than 100 charging stations for use by our employees and contractors at our properties in New Jersey, Louisiana, and Texas.

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

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