



Formosa Plastics®

Formolene® HDPE

Formolene® HB5502B

High Density Polyethylene (HDPE) Resin Designed for Blow Molding Applications

Formolene® HB5502B is designed for applications requiring excellent stiffness and stress crack resistance properties. It may be used as a general-purpose blow molding resin or sheet extrusion thermoforming resin.

Formolene® HB5502B meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

Pharmaceutical Packaging
Bleach and Detergents

Personal Care Products
Industrial Chemicals & Parts

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	English		SI	
		UNIT	VALUE	UNIT	VALUE
Density	D1505	g/cc	0.955	g/cc	0.955
Melt Index, Condition E, 190°C/2.16 kg	D1238	g/10 min	0.35	g/10 min	0.35
Environmental Stress Crack Resistance (ESCR)					
Condition B, F ₅₀ (100% Igepal)	D1693	h	35	h	35
Tensile Yield Strength	D638				
2" (50 mm) per min.	Type IV	psi.	4000	MPa	28
Ultimate Elongation	D638				
2" (50 mm) per min.	Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-180	°C	<-118
Flexural Modulus	D790	psi.	200,000	MPa	1378

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

Published 06/01/01, Revised 07/16/21

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3

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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. Statements concerning the use of the products of 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.

© Formosa Plastics Corporation, U.S.A.

Formolene® & Formolon® are registered trademarks of FPC USA

02/20

