



Formosa Plastics®

Formolene® HDPE

Formolene® HB5202B

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

Formolene® HB5202B is designed for applications requiring excellent stiffness and stress crack resistance properties. It may be used as a blow molding resin or sheet extrusion thermoforming resin.

Formolene® HB5202B 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:

Containers	Molded or formed...
Bleach and Detergents	Industrial Housings
Chemicals	Shrouds
	Tanks

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	English		SI	
		UNIT	VALUE	UNIT	VALUE
Density	D1505	g/cc	0.952	g/cc	0.952
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 (100% Igepal), F ₅₀	D1693	h	50	h	50
Tensile Yield Strength 2" (50 mm) per min.	D638 Type IV	psi.	3900	MPa	27
Ultimate Elongation 2" (50 mm) per min.	D638 Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-180	°C	<-118
Flexural Modulus	D790	psi.	190,000	MPa	1309

* 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.

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

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