


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...

Bleach and Detergents

Chemicals

Molded or formed...

Industrial Housings

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, F ₅₀ (100% Igepal)	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 D1928.

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 • Fax: (973) 422-7772

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