


Formosa Plastics®
Formolene® HDPE

Formolene® HB5502F

High Density Polyethylene (HDPE) Resin

Contains a Synthetic Additive for Food Grade Blow Molding Applications

Formolene® HB5502F HDPE resin is designed for applications requiring excellent stiffness and stress crack resistance properties. It contains a synthetic antistatic additive which enables it to be used for food contact applications. It may be used as a blow molding resin or sheet extrusion thermoforming resin.

Formolene® HB5502F 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:

Blow Molding...

Pharmaceuticals

Food Packaging

Industrial Chemicals

Industrial Parts

Molding or Forming...

Industrial Parts

Pallets

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	30	h	30
Tensile Yield Strength, 2" (50 mm) per min.	D638 Type IV	psi.	4000	MPa	28
Ultimate Elongation, 2" (50 mm) per min.	D638 Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-120	°C	<-84
Flexural Modulus Tangent - 16:1 span: depth, 0.5 in/min	D790	psi.	200,000	MPa	1370

* 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 2/01/05, Revised 07/20

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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