



Formosa Plastics®

## Technical Data Sheet

Formolene® HDPE

### Formolene HB 5502B

Melt Index – 0.35

Density – 0.955

(Produced using licensor formulation for HHM 5502BN)

**High Density Polyethylene**

**Hexene Copolymer for Blow Molding**

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*	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 A, F <sub>50</sub> (100% Igepal)	D1693	h	45	h	45
Condition B, F <sub>50</sub>	D1693	h	35	h	35
Tensile Yield Strength, 2" (50 mm) per min.	D638				
Ultimate Elongation, 2" (50 mm) per min.	Type IV	psi	4000	MPa	28
Brittleness Temperature	D638				
Flexural Modulus	Type IV	%	>600	%	>600
	D746	°F	<-180	°C	<-118
	D790	psi	200,000	MPa	1378

\* 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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EMS 35710

