

Formolene® HB5202B

High Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Technical Data

Product Description

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.

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• Formosa Plastics Corporation, U.S.A. • Formolene®		
Availability	• North America		
Features	• Copolymer • Detergent Resistant • Food Contact Acceptable	• Good Chemical Resistance • Hexene Comonomer • High Density	• High ESCR (Stress Crack Resist.) • High Stiffness
Uses	• Blow Molding Applications • Containers	• Housings • Industrial Applications	• Sheet • Tanks
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Blow Molding	• Sheet Extrusion	• Thermoforming

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance		
Compression Molded, F50	50.0 hr	ASTM D1693B
100% Igepal, Compression Molded, F50	50.0 hr	ASTM D1693A

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield, Compression Molded)	26.9 MPa	ASTM D638
Tensile Elongation ³		ASTM D638
Break, Compression Molded	> 600 %	
Flexural Modulus (Compression Molded)	1310 MPa	ASTM D790

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -118 °C	ASTM D746

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Type IV, 51 mm/min