

Formolene® HB5502Z

High Density Polyethylene

Formosa Plastics Corporation, U.S.A.

Technical Data

Product Description

Formolene® HB5502Z eliminates the need for including a mold release agent at each machine, by incorporating zinc stearate with the resin. This incorporation assures uniform consistent release properties. It may be used as an injection blow molding resin.

Formolene® HB5502Z 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	
Additive	• Zinc Stearate Lubricant	
Features	• Copolymer • Food Contact Acceptable	• Good Mold Release • Hexene Comonomer
Uses	• Blow Molding Applications	• Pharmaceutical Packaging
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520
Forms	• Pellets	
Processing Method	• Blow Molding	• Injection Blow Molding

Physical	Nominal Value Unit	Test Method
Density	0.955 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	35.0 hr	ASTM D1693B
100% Igepal, Compression Molded, F50	45.0 hr	ASTM D1693A
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield, Compression Molded)	27.6 MPa	ASTM D638
Tensile Elongation ³		ASTM D638
Break, Compression Molded	600 %	
Flexural Modulus (Compression Molded)	1380 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