



Formolene® HB5502Z

Formosa Plastics Corporation, U.S.A. - High Density Polyethylene

Tuesday, November 5, 2019

General Information

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 releasing 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	
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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) Compression Molded, F50	35.0	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Compression Molded)	4000	psi	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	600	%	ASTM D638
Flexural Modulus (Compression Molded)	200000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -180	°F	ASTM D746

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type IV, 2.0 in/min