



Formolene® HB5502F

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

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General Information

Product Description

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.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antistatic		
Features	• Antistatic • Food Contact Acceptable	• Good Stiffness • Hexene Comonomer	• High ESCR (Stress Crack Resist.)
Uses	• Food Packaging • Industrial Applications	• Industrial Parts • Pallets	• Pharmaceuticals
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Blow Molding	• Sheet Extrusion	• Thermoforming

ASTM & ISO Properties¹

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) 100% Igepal, Compression Molded, F50	30.0	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)	150000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ³	< -120	°F	ASTM D746

Notes

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

² Type IV, 2.0 in/min

³ Compression Molded