

Formolene® HB5502S1

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

Message:

Formolene® HB5502S1 HDPE resin 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® HB5502S1 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 Information			
UL YellowCard	E205741-579651		
Features	Copolymer		
	Food Contact Acceptable		
	Hexene Comonomer		
	High ESCR (Stress Crack Resist.)		
	High Stiffness		
Uses	Blow Molding Applications		
	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	0.955	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	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 ¹ (Yield, Compression Molded)	27.6	MPa	ASTM D638

Tensile Elongation ² (Break, Compression Molded)	> 600	%	ASTM D638
Flexural Modulus (Compression Molded)	1380	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -84.4	°C	ASTM D746
NOTE			
1.	Type IV, 51 mm/min		
2.	Type IV, 51 mm/min		

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