Formolene® HB5502A

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene HB5502A is designed for applications requiring excellent stiffness and stress crack resistance properties. It may be used as a general-purpose blow molding resin or sheet extrusion thermoforming resin.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antistatic		
Features	• Antistatic • Copolymer • Detergent Resistant	• General Purpose • Good Stiffness • Hexene Comonomer	• High Density • High ESCR (Stress Crack Resist.)
Uses	• Blow Molding Applications • General Purpose • Industrial Applications	• Industrial Containers • Packaging • Personal Care	• Sheet
Agency Ratings	• EC 1907/2006 (REACH)		
Forms	• Pellets		
Processing Method	• Blow Molding	• Sheet Extrusion	• Thermoforming

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693B
Compression Molded, F50	35.0	hr	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Compression Molded)	4060	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, 0.079 in/min