Formosa Plastics®

Formolene® HDPE

Formolene® HB5202B2

High Density Polyethylene (HDPE) Resin Designed for Both Sheet Extrusion and Blow Molding Applications

Formolene® HB5202B2 is designed for applications requiring excellent stiffness, impact strength, and excellent stress crack resistance. It may be used as a blow molding resin or sheet extrusion thermoforming resin.

Formolene® HB5202B2 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.

Suggested Applications:

Containers	*Molded or formed…*
Bleach and Detergents	Industrial Housings
Chemicals	Shrouds
	Tanks

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	English UNIT	English VALUE	SI UNIT	SI VALUE
Density	D1505	g/cc	0.952	g/cc	0.952
Melt Index, Condition E, 190ºC/2.16 kg	D1238	g/10 min	0.30	g/10 min	0.30
Environmental Stress Crack Resistance (ESCR)					
Condition A, F_{50} (100% Igepal)	D1693	h	50	h	50
Condition B, F_{50}	D1693	h	50	h	50
Tensile Yield Strength	D638				
2” (50 mm) per min.	Type IV	psi.	3900	MPa	27
Ultimate Elongation	D638				
2” (50 mm) per min.	Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-180	°C	<-118
Flexural Modulus	D790	psi.	190,000	MPa	1309

* Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D4703, Annex A1.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

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