Formosa Plastics®

Formolene® HDPE

Formolene® HB4903

High Density Polyethylene (HDPE) Resin Designed for High ESCR Blow Molding Applications

Formolene® HB4903 is a high performance copolymer that is designed for the most demanding blow molding applications. It is also utilized in many sheeting applications. This resin has exceptional stress crack resistance, excellent surface appearance, good melt strength, and good process-ability.

Suggested Applications:

Fuel Tanks
Seating Large
Sheet
Garbage Cans
Industrial Containers

Nominal Physical Properties:

PROPERTY*	ASTM TEST METHOD	English UNIT	English VALUE	SI UNIT	SI VALUE
Density	D1505	g/cc	0.949	g/cc	0.949
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 B (100% Igepal), F_{50}	D1693	h	500	h	500
Tensile Yield Strength 2” (50 mm) per min.	D638 Type IV	psi.	3600	MPa	25
Ultimate Elongation 2” (50mm) per min.	D638 Type IV	%	>600	%	>600
Brittleness Temperature	D746	°F	<-180	°C	<-118

* 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.

Published 06/01/01, Revised 07/16/21

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3

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