

Formosa Plastics Formolene® HB4903 Blow Molding HDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Hexene Copolymer Applications: High performance blow molding applications, fuel tanks, seating, garbage cans, sheet, large industrial containers. 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 processability. Produced using licensor formulation for HHM 4903. Licensor does not warrant or imply that this product meets their specifications for HHM 4903. Formolene HB4903 meets all the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 for food packaging at temperatures not exceeding 212°F (100°C). Nominal properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928. Physical properties are typical of product but do not reflect normal testing variance and therefore should not be used for specification purposes. Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-HB4903-Blow-Molding-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	500 hour	500 hour	Condition A (100% Igepal), F _{>50} ; ASTM D1693
	500 hour	500 hour	Condition B (10% Igepal), F _{>50} ; ASTM D1693
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.8 MPa	3600 psi	2" (50mm) per min.; ASTM D638 Type IV
Elongation at Break	>= 600 %	>= 600 %	2" (50mm) per min.; ASTM D638 Type IV

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -118 °C	<= -180 °F	ASTM D746

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