



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 | Garbage Cans |
| Seating Large Sheet | Industrial Containers |

Nominal Physical Properties:

| PROPERTY* | ASTM TEST METHOD | English | | SI | |
|---|------------------|----------|-------|----------|-------|
| | | UNIT | VALUE | UNIT | VALUE |
| Density | D1505 | g/cc | 0.949 | g/cc | 0.949 |
| Melt Index, Condition E, 190°C/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

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However because of numerous factors affecting results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

© Formosa Plastics Corporation, U.S.A.

Formolene® & Formolon® are registered trademarks of FPC USA