


**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 processability.

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).

#### **Suggested Applications:**

|            |                             |
|------------|-----------------------------|
| Fuel Tanks | Garbage Cans                |
| Seating    | Large Industrial Containers |
| Sheet      |                             |

#### **Nominal Physical Properties:**

| PROPERTY*                                                                                     | ASTM<br>TEST<br>METHOD | ENGLISH   |       | SI        |       |
|-----------------------------------------------------------------------------------------------|------------------------|-----------|-------|-----------|-------|
|                                                                                               |                        | Unit      | Value | Unit      | Value |
| Density                                                                                       | D1505                  | g/cc      | 0.949 | g/cc      | 0.949 |
| Melt Index, Condition E,<br>190°C/2.16 kg                                                     | D1238                  | g/10 min. | 0.30  | g/10 min. | 0.30  |
| Environmental Stress Crack<br>Resistance (ESCR)<br>Condition B (100% Igepal), F <sub>50</sub> | D1693                  | h         | 500   | h         | 500   |
| Tensile Yield Strength,<br>2" (50 mm) per min.                                                | D638<br>Type IV        | psi.      | 3600  | MPa       | 25    |
| Ultimate Elongation,<br>2" (50 mm) per min.                                                   | D638<br>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 D1928.

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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