



Formosa Plastics®

Formolene® HDPE

## Formolene® HB5502F

**High Density Polyethylene (HDPE) Resin**  
**Contains a Synthetic Additive for Food Grade Blow Molding Applications**

Formolene® HB5502F HDPE resin is designed for applications requiring excellent stiffness and stress crack resistance properties. It contains a synthetic antistatic additive which enables it to be used for food contact applications. It may be used as a blow molding resin or sheet extrusion thermoforming resin.

Formolene® HB5502F 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:

Blow Molding...

Pharmaceuticals

Food Packaging

Industrial Chemicals

Industrial Parts

Molding or Forming...

Industrial Parts

Pallets

### Nominal Physical Properties:

| PROPERTY*                                                                               | ASTM TEST METHOD | ENGLISH   |         | SI        |       |
|-----------------------------------------------------------------------------------------|------------------|-----------|---------|-----------|-------|
|                                                                                         |                  | Unit      | Value   | Unit      | Value |
| Density                                                                                 | D1505            | g/cc      | 0.955   | g/cc      | 0.955 |
| Melt Index, Condition E, 190°C/2.16 kg                                                  | D1238            | g/10 min. | 0.35    | g/10 min. | 0.35  |
| Environmental Stress Crack Resistance (ESCR) Condition B, F <sub>50</sub> (100% Igepal) | D1693            | h         | 30      | h         | 30    |
| Tensile Yield Strength, 2" (50 mm) per min.                                             | D638 Type IV     | psi.      | 4000    | MPa       | 28    |
| Ultimate Elongation, 2" (50 mm) per min.                                                | D638 Type IV     | %         | >600    | %         | >600  |
| Brittleness Temperature                                                                 | D746             | °F        | <-120   | °C        | <-84  |
| Flexural Modulus Tangent - 16:1 span: depth, 0.5 in/min                                 | D790             | psi.      | 200,000 | MPa       | 1370  |

\* 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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