


**Formosa Plastics®**
**Formolene® HDPE**

## Formolene® HB5502Z

### High Density Polyethylene (HDPE) Resin

#### Contains a Mold Release Additive for Injection Blow Molding Applications

Formolene® HB5502Z eliminates the need for including a mold release agent at each machine, by incorporating zinc stearate with the resin. This incorporation assures uniform consistent releasing properties. It may be used as an injection blow molding resin.

Formolene® HB5502Z 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:

*Injection Blow Molded...*

Pharmaceutical Packaging

#### Nominal Physical Properties:

| PROPERTY*                                                                                     | ASTM<br>TEST<br>METHOD | ENGLISH   |         | SI        |       |
|-----------------------------------------------------------------------------------------------|------------------------|-----------|---------|-----------|-------|
|                                                                                               |                        | Unit      | Value   | Unit      | Value |
| Density                                                                                       | D1505                  | g/cc      | 0.955   | g/cc      | 0.955 |
| Melt Index, Condition E,<br>190°C/2.16 kg                                                     | D1238                  | g/10 min. | 0.35    | g/10 min. | 0.35  |
| Environmental Stress Crack<br>Resistance (ESCR)<br>Condition B, F <sub>50</sub> (100% Igepal) | D1693                  | h         | 35      | h         | 35    |
| Tensile Yield Strength,<br>2" (50 mm) per min.                                                | D638<br>Type IV        | psi.      | 4000    | MPa       | 28    |
| Ultimate Elongation,<br>2" (50 mm) per min.                                                   | D638<br>Type IV        | %         | 600     | %         | 600   |
| Brittleness Temperature                                                                       | D746                   | °F        | <-180   | °C        | <-118 |
| Flexural Modulus                                                                              | D790                   | psi.      | 200,000 | MPa       | 1378  |

\* 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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