

Producer: Formosa Plastics / Taiwan

## Formolene HB 5502B

### Description:

High Density Polyethylene (Formolene<sup>®</sup> HDPE). Hexene Copolymer for Blow Molding

Produced using licensor formulation for HHM 5502BN

**Formolene HB5502B** is designed for applications requiring excellent stiffness and stress crack resistance properties. It may be used as a general-purpose blow molding resin or sheet extrusion thermoforming resin.

**Formolene HB5502B** 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:

- Pharmaceutical packaging
- Personal care products
- Bleach and detergents
- Industrial chemicals & parts

### Nominal Physical Properties:

| PROPERTIES                                      | ASTM TEST 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    | 0.35    | g/10 min | 0.35  |
| Environmental Stress Crack<br>Resistance (ESCR) | D1693            | h       | 45      | h        | 45    |
| Condition A, F <sub>50</sub> (100% Igepal)      | D1693            | h       | 35      | h        | 35    |
| Condition B, F <sub>50</sub>                    |                  |         |         |          |       |
| 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.