

Formolene® HB5202B

High Density Polyethylene
Formosa Plastics Corporation, U.S.A.

Message:

Formolene® HB5202B is designed for applications requiring excellent stiffness and stress crack resistance properties. It may be used as a blow molding resin or sheet extrusion thermoforming resin.
Formolene® HB5202B 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.

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Features | Copolymer | | |
| | Detergent Resistant | | |
| | Food Contact Acceptable | | |
| | Good Chemical Resistance | | |
| | Hexene Comonomer | | |
| | High Density | | |
| | High ESCR (Stress Crack Resist.) | | |
| | High Stiffness | | |
| Uses | Blow Molding Applications | | |
| | Containers | | |
| | Housings | | |
| | Industrial Applications | | |
| | Sheet | | |
| | Tanks | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| | FDA 21 CFR 177.1520 | | |
| Forms | Pellets | | |
| Processing Method | Blow Molding | | |
| | Sheet Extrusion | | |
| | Thermoforming | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.952 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.35 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance | | | |
| Compression Molded, F50 | 50.0 | hr | ASTM D1693B |
| 100% Igepal, Compression Molded, F50 | 50.0 | hr | ASTM D1693A |

| Mechanical | Nominal Value | Unit | Test Method |
|---|--------------------|------|-------------|
| Tensile Strength ¹ (Yield, Compression Molded) | 26.9 | MPa | ASTM D638 |
| Tensile Elongation ² (Break, Compression Molded) | > 600 | % | ASTM D638 |
| Flexural Modulus (Compression Molded) | 1310 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | < -118 | °C | ASTM D746 |
| NOTE | | | |
| 1. | Type IV, 51 mm/min | | |
| 2. | Type IV, 51 mm/min | | |

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