

# Marlex<sup>®</sup> HHM 5502BN

HIGH DENSITY POLYETHYLENE

This high molecular weight, hexene copolymer is tailored for lightweight blow molded containers that:

- Require excellent stiffness
- Require exceptional processability
- Are durable and recyclable for sustainability

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)  
Listed in the Drug Master File

Typical blow molded applications for HHM 5502BN include:

- Ice chests and coolers
- Household and industrial chemical containers
- Food packaging
- Pharmaceuticals

| NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>                      | English     | SI                      | Method     |
|---|-------------|-------------------------|------------|
| <b>Density</b>  | ---         | 0.955 g/cm <sup>3</sup> | ASTM D1505 |
| <b>Melt Index</b> , 190/2.16                                    | ---         | 0.35 g/10 min           | ASTM D1238 |
| <b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar        | 4,000 psi   | 27 MPa                  | ASTM D638  |
| <b>Elongation at Break</b> , 2 in/min, Type IV bar              | 600%        | 600%                    | ASTM D638  |
| <b>Flexural Modulus</b> , Tangent - 16:1 span:depth, 0.5 in/min | 200,000 psi | 1,370 MPa               | ASTM D790  |
| <b>ESCR</b> , Condition B (100% Igepal), F50                    | 35 h        | 35 h                    | ASTM D1693 |
| <b>Brittleness Temperature</b> , Type A, Type I specimen        | <-103°F     | <-75°C                  | ASTM D746  |

1. 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. Values are rounded. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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Another quality product from



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