

Marlex[®] HHM 5502BN Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

This high molecular weight, ethylene-hexene copolymer is tailored for lightweight blow moulded containers that require:

- Excellent stiffness
- Exceptional processability
- Durability

Typical blow moulded applications for HHM 5502BN include:

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

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per Table 2 of 21 CFR 176.170(c)
- Listed in the Drug Master File

For a safety data sheet (SDS), visit our site at www.saudipolymers.com

| Nominal Resin Properties ⁽¹⁾ | Value (SI Units) | Method |
|--|-------------------------|------------|
| Density | 0.955 g/cm ³ | ASTM D1505 |
| Flow Rate (MI, 190 °C/2.16 kg) | 0.35 g/10 min | ASTM D1238 |
| Tensile Strength at Yield, 50.8 mm/min, Type IV bar | 27 MPa | ASTM D638 |
| Elongation at Break, 50.8 mm/min, Type IV bar | 600 % | ASTM D638 |
| Flexural Modulus, Tangent - 16:1 span:depth, 12.7 mm/min | 1,370 MPa | ASTM D790 |
| ESCR, Condition B (100 % Igepal), F ₅₀ | 24 h | ASTM D1693 |
| Brittleness Temperature, Type A, Type I specimen | < -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 moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

Revision Date: January, 2021