Marlex® HHM 5502BN

High Density Polyethylene Saudi Polymers Company

Technical Data



Product Description

This high molecular weight hexene copolymer is tailored for light blow moulded containers that require:

- Excellent stiffness
- Exceptional processability

Typical blow moulded applications for HHM 5502BN include:

- Household chemicals
- Industrial chemicals
- · Pharmaceuticals
- Toolboxes
- Furniture

General

| Material Status | Commercial: Active | | |
|---------------------------|--|---|--|
| Literature ¹ | Technical Datasheet (English) | | |
| Search for UL Yellow Card | Marlex® | | |
| Availability | Africa & Middle East | Asia Pacific | Europe |
| Features | CopolymerFood Contact Acceptable | Good ProcessabilityGood Stiffness | Hexene ComonomerHigh Molecular Weight |
| Uses | Blow Molding ApplicationsContainersFurniture | Household GoodsIndustrial ContainersPharmaceuticals | Tool/Tote Box |
| Agency Ratings | ASTM D 4976-PE235DMF Unspecified Rating | EU No 10/2011 FDA 21 CFR 177.1520(c) 3.2a | |
| Forms | Pellets | | |
| Processing Method | Blow Molding | | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|-------------------------|-------------|
| Density | 0.955 g/cm ³ | 0.955 g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.35 g/10 min | 0.35 g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (ESCR) | | | ASTM D1693B |
| 100% Igepal, Compression Molded, F50 | 35.0 hr | 35.0 hr | |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength ³ (Yield, Compression Molded) | 3920 psi | 27.0 MPa | ASTM D638 |
| Tensile Elongation ³ | | | ASTM D638 |
| Break, Compression Molded | 600 % | 600 % | |
| Flexural Modulus - Tangent ^{4, 5} (Compression Molded) | 199000 psi | 1370 MPa | ASTM D790 |
| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore D, Compression Molded | 63 | 63 | |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 psi (0.45 MPa), Unannealed, Compression Molded | 174 °F | 79.0 °C | |
| Brittleness Temperature ⁶ | < -103 °F | < -75.0 °C | ASTM D746A |
| Additional Information | | | |

Additional Information

The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.



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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

- ² Typical properties: these are not to be construed as specifications.
- ³ Type IV, 2.0 in/min (51 mm/min)
- ⁴ 0.50 in/min (13 mm/min)
- ⁵ 16:1 span:depth
- ⁶ Type I specimen



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