

Marlex® HHM 5502BN

High Density Polyethylene

Saudi Polymers Company

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

Availability	• Africa & Middle East	• Asia Pacific
Features	• Copolymer	• Good Processability
	• Food Contact Acceptable	• Good Stiffness
Uses	• Blow Molding Applications	• Household Goods
	• Containers	• Industrial Containers
	• Furniture	• Pharmaceuticals
Agency Ratings	• ASTM D 4976-PE235	• EU No 10/2011
	• DMF Unspecified Rating	• FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets	

Processing Method • Blow Molding

Physical	Nominal Value Unit	Test Method
Density	0.955 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 (100% Igepal, Compression Molded, F50)	35.0 hr	ASTM D1693B
Hardness	Nominal Value Unit	Test Method
Durometer	63	ASTM D2240
Hardness (Shore D, Compression Molded)		
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ² (Yield, Compression Molded)	27.0 MPa	ASTM D638
Tensile Elongation ² (Break, Compression Molded)	600 %	ASTM D638
Flexural Modulus - Tangent ^{3,4} (Compression Molded)	1370 MPa	ASTM D790
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	79.0 °C	ASTM D648
Brittleness Temperature ⁵	< -75.0 °C	ASTM D746A

Additional Information

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

Notes

¹These 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.

²Type IV, 51 mm/min

³13 mm/min

⁴16:1 span:depth

⁵Type I specimen