

Marlex® HHM 5502BN

High Density Polyethylene
Saudi Polymers Company

PROSPECTOR®

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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	• Copolymer	• Good Processability	• Hexene Comonomer
	• Food Contact Acceptable	• Good Stiffness	• High Molecular Weight
Uses	• Blow Molding Applications	• Household Goods	• Tool/Tote Box
	• 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

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield, Compression Molded)	27.0 MPa	ASTM D638
Tensile Elongation ³ Break, Compression Molded	600 %	ASTM D638
Flexural Modulus - Tangent ^{4,5} (Compression Molded)	1370 MPa	ASTM D790

Hardness	Nominal Value Unit	Test Method
Durometer Hardness Shore D, Compression Molded	63	ASTM D2240

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed, Compression Molded	79.0 °C	ASTM D648
Brittleness Temperature ⁶	< -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

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, 51 mm/min

⁴ 13 mm/min

⁵ 16:1 span:depth

⁶ Type I specimen



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Where to Buy

Supplier

Saudi Polymers Company

Jubail Industrial City, Saudi Arabia

Telephone: +966-3-356-8222

Web: <http://www.saudipolymers.com/>

Distributor

Please contact the supplier to find a distributor for Marlex® HHM 5502BN

