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MARLEX® POLYETHYLENE

PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® HHM 5502BN

High Density Polyethylene

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

- Excellent stiffness
- Exceptional processability

This resin meets these specifications:

- ASTM D4976 – PE 235
- FDA 21 CFR 177.1520(c) 3.2a
- Listed in the Drug Master File
- EU No. 10/2011

Typical blow moulded applications for HHM 5502BN include:

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

For a Material Safety Data Sheet (MSDS), visit our site at www.saudipolymers.com

Nominal Resin Properties[1,2]	Value (SI Units)	Method
Density	0.955 g/cm^3	ASTM D1505
Melt Index, Condition 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	1370 MPa	ASTM D790
ESCR, Condition B (100% Igepal), F_{50}	35 hrs	ASTM D1693
Durometer Hardness, Type D (Shore D)	63	ASTM D2240
Heat Deflection Temperature @ 0.46 MPa	79°C	ASTM D648
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.
2. The physical properties were determined on compression moulded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.
3. Not Determined – Awaiting laboratory updates.

Revision Date February 2012

Saudi Polymers LLC

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Saudi Polymers Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as any international laws which may be encountered in the use thereof. Such questions should be investigated by the user.

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