

CHEVRON PHILLIPS SINGAPORE CHEMICALS (PRIVATE) LIMITED CHEVRON PHILLIPS CHEMICALS ASIA PTE LTD

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HIGH DENSITY POLYETHYLENE TECHNICAL DATA SHEET

Marlex[®] HHM 5502

This high molecular weight, hexene copolymer is tailored for light weight blow molded containers that :

- Require excellent stiffness
- · Require exceptional processability
- Are durable and recyclable for sustainability

Typical blow molded applications for HHM 5502 include:

- Household chemicals
- Industrial chemicals
- Pharmaceuticals
- Tool box
- Furniture

This resin meets these specifications:

- FDA 21 CFR 177.1520(c) 3.2a. May be used in contact with all types of food at conditions of use B through H per 21 CFR 176.170(c).
- ASTM D4976 PE 235
- Listed in FDA Drug Master File
- All constituents of this resin are listed in the Commission Regulation (EU) No. 10/2011. Meets requirements of Commission Regulation (EU) No. 10/2011. Framework regulation (EC) No. 1935/2004, and Commission Regulation (EC) No. 2023/2006.

NOMINAL PHYSICAL PROPERTIES (1)	TEST METHOD	UNIT	VALUE
Density	ASTM D1505	g/cm ³	0.955
Melt Index, Condition 190/2.16 Condition 190/21.6	ASTM D1238	g/10 min	0.35 33
Tensile Strength at Yield, 50 mm/min, Type IV bar	ASTM D638	MPa	27
Elongation at Break, 50 mm/min, Type IV bar	ASTM D638	%	600
Flexural Modulus, Tangent - 16:1 span:depth, 12.7 mm/min	ASTM D790	MPa	1370
ESCR, condition B (100% Igepal), F_{50}	ASTM D1693	h	35
Durometer Hardness, Type D (Shore D)	ASTM D2240	-	63
Heat Deflection Temperature, 66 psi, Method A	ASTM D648	°C	79
Brittleness Temperature, Type A clamp, Type I specimen	ASTM D746	°C	<-75

(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 molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

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. Chevron Phillips Singapore Chemicals (Private) Limited does not make, and expressly disclaims, all warranties, including warranties of merchantability of 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 entained 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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