



Premium Extrusion and Rigid Packaging Resins

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

5 Temasek Boulevard  
#05-01 Suntec Tower Five  
Singapore 038985

HIGH DENSITY POLYETHYLENE  
TECHNICAL DATA SHEET



TAN PHU SAI GON

# Marlex® HHM 5502

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

- Excellent stiffness
- Exceptional processability

This resin meets these specifications:

- FDA 21 CFR 177.1520
- ASTM D4976 – PE 235
- Listed in the Drug Master File

Typical blow molded applications for HHM 5502 include:

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

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	TEST METHOD	UNIT	VALUE
Density	ASTM D1505	g/cm <sup>3</sup>	0.955
Melt Index, Condition 190/2.16	ASTM D1238	g/10 min	0.35
Condition 190/21.6			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 <sub>50</sub>	ASTM D1693	h	35
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 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.

Another quality product from



For more information and technical assistance, please contact

Singapore	Australia	China	Hong Kong	Japan	Malaysia	New Zealand	Philippine	Vietnam
T: 65-6517 3100	61-3-8080 5700	86-21-6236 2199	852-2526 5591	81-3-5200 0503	60-3-7955 1187	64-9-489 9288	63-2-6700 8458	84-8-823 3152
F: 65-6517 3270	61-3-8080 5699	86-21-6236 2024	852-2810 0125	81-3-5200 0509	60-3-7954 8867	64-9-486 4673	63-2-6700 8413	84-8-823 6346

• 20.3.06