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PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® HHM 5502BN

HIGH DENSITY POLYETHYLENE

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

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

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per 21 CFR 176.170(c)
- Listed in the Drug Master File

Typical blow molded applications for HHM 5502BN include:

- Ice chests and coolers
- Household and industrial chemical containers
- Food packaging
- Pharmaceuticals

NOMINAL PHYSICAL PROPERTIES ⁽¹⁾	English	SI	Method
Density	---	0.955 g/cm ³	ASTM D1505
Melt Index, 190/2.16	---	0.35 g/10 min	ASTM D1238
Tensile Strength at Yield, 2 in/min, Type IV bar	4,000 psi	27 MPa	ASTM D638
Elongation at Break, 2 in/min, Type IV bar	600%	600%	ASTM D638
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	200,000 psi	1,370 MPa	ASTM D790
ESCR, Condition B (100% Igepal), F ₅₀	35 h	35 h	ASTM D1693
Brittleness Temperature, Type A, Type I specimen	<-103°F	<-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. The physical properties were determined on compression molded specimens that were prepared in accordance with Procedure C of ASTM D4703, Annex A1.

MSDS #240370

Revision Date May, 2007

Another quality product from



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 Chemical Company LP 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 federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.

112147 White PE MB

Product Information

Physical Properties

Carrier Resin

Type	LD	PE
Melt Index	8	(nominal) ASTM D1238, 190 / 2.16
Density	.92	gm/cc

Concentrate

Specific Gravity	1.56	(nominal)
Melt Index	~20	(nominal) ASTM D1238, 190 / 2.16
Pigment	52%	TiO ₂
Additive	8%	Vegetable Zinc Stearate

Regulatory Status

Food Contact

This material is composed of ingredients that are cleared by the U.S. Federal Food and Drug Administration (FDA) for safe use in *Polyethylene* and may be used in food contact applications subject to applicable restrictions. Please contact regulatoryglobal@ampacet.com for more information.

Heavy Metals / CONEG

This product is not intentionally formulated with heavy metals. Residuals that may be detected are expected to be less than 100 PPM total lead, cadmium, hexavalent chromium and mercury.

Comments

The amount of masterbatch depends on the performance requirements of the final application. This product is primarily designed for molding applications.

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