For more information and technical assistance contact:

Chevron Phillips Chemical Company LP
P.O. Box 4910
The Woodlands, TX 77387-4910
800.231.1212

MARLEX® POLYETHYLENE

PREMIUM EXTRUSION AND RIGID PACKAGING RESINS

Marlex® HHM 5502BZ

HIGH DENSITY POLYETHYLENE

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

- Require consistent mold-release properties
- Require excellent stiffness
- Require exceptional processability
- Are durable and recyclable for sustainability

Typical applications for HHM 5502BZ include:

- Pharmaceuticals
- Injection blow molding

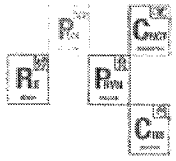
This resin meets these specifications:

- 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

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	210,000 psi	1,440 MPa	ASTM D790
ESCR, Condition C (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

Ampacet
Managing the Elements of Success™



110017-A White PE MB — Product Information

Physical Properties

Carrier Resin

Type	LLDPE	
Melt Index	20	(nominal) ASTM D1238, 190°C / 2.16 kg
Density	0.92	gm/cc

Masterbatch

Specific Gravity	2.07	(nominal)
Melt Index	7-18	(nominal) ASTM D1238, 190°C / 2.16 kg
Ash	74%	(nominal)

Regulatory Status

Due to the wide range of applications for this product regulatory information cannot be covered adequately in a technical datasheet.
Please contact RegulatoryNorthAmerica@ampacet.com for regulatory information.

Storage - Shelf Life

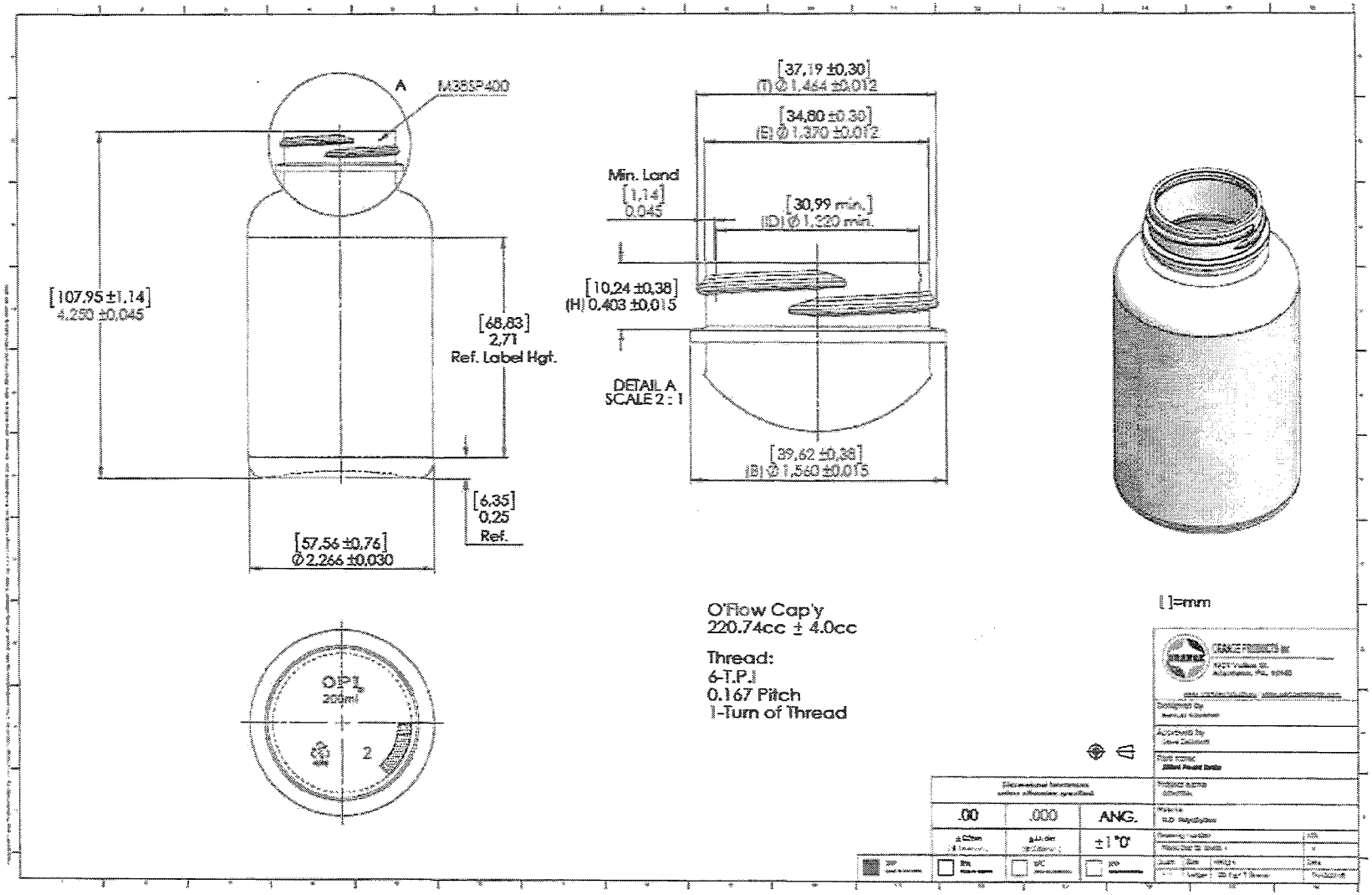
It is recommended to use this masterbatch within 24 months of the production date. It should not be stored outside.

Comments

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

Issued: 18 May 2015

Ampacet Corporation – North America Headquarters - 660 White Plains Road Tarrytown, NY 10591 Tel. 914 631 6600
R&D Center 3801 N. Fruitridge Avenue Terre Haute, IN 47804 Tel. 812 466 9828
www.Ampacet.com



ORANGE PRODUCTS Inc.
1929 Vultee St,
Allentown, PA, 18103
www.orangeproducts.eu | www.orangeproducts.com

Designed by	Mateusz Krupsinski		
Approved by	Steve DeSmedt		
Part name	200ml Round Bottle		
Project name	GENERAL		
Material	H.D. Polyethylene		
Drawing number	FM40.200.02.38400.1		REV 1

Dimensional tolerances unless otherwise specified		
.00	.000	ANG.
±.025in [±.064mm]	±.015in [±.038mm]	±1°0'

■ INF Issued for Information	☐ IFA Issued for Approval	☐ IFC Issued for Construction	☐ IFP Issued for Production	Scale 1:1	Size Ledger	Weight 20.6 ±1.5 Grams	Date 01/13/2015