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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.

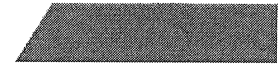
MSDS #240370

Revision Date May, 2007

Another quality product from



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Technical Data Sheet

ONCOLOR WHITE #05-089 (CC10075392)

Color Masterbatch

Product Description

ONCOLOR WHITE #05-089 (CC10075392)

General Key Characteristics

ONCOLOR WHITE #05-089 (CC10075392) is a LL/LDPE based Bead product.

Concentrate

Color	- White
Carrier	- LL/LDPE
Typical Addition Rate	- 2.00 %
Regulatory Information	- Based upon the information provided to us by our suppliers, we certify that, to the best of our knowledge, the product identified on this data sheet, when used at the recommended use rates, alone should not cause the products manufactured to exceed the limits for heavy metals prescribed under the CONEG Model Toxics Legislation; namely that, except as exempted by that model legislation, the sum of the concentration levels of lead, cadmium, mercury and hexavalent chromium present in any such product or component is not to exceed 100 parts per million by weight (0.01%).
Food Contact Status	- Product may suitable for some FDA applications.
Drug Master File	- Drug Master File exists for this product.

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Technical Data Sheet

ONCOLOR WHITE #05-089 (CC10075392)

Physical

Product Form - Bead

Packaging

ONCOLOR WHITE #05-089 (CC10075392) is supplied in Bead form and packed in 50 lb. boxes, 250 lb PlanetPak™ boxes, or 1000 lb gaylords. The product should be stored in a dry place and kept free of contamination.

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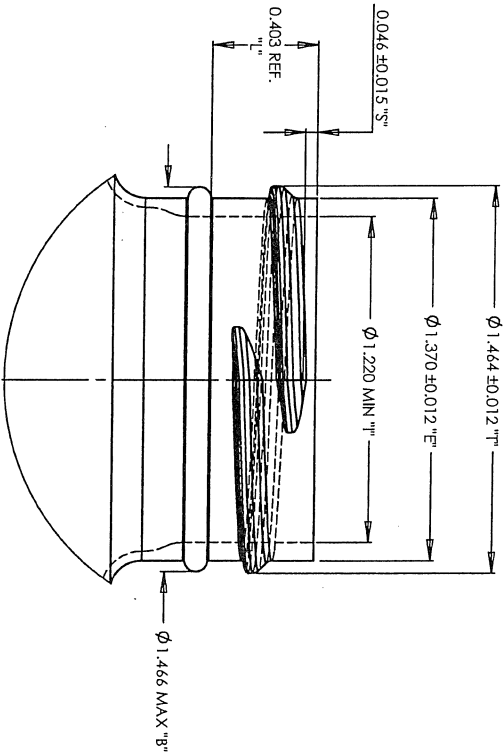
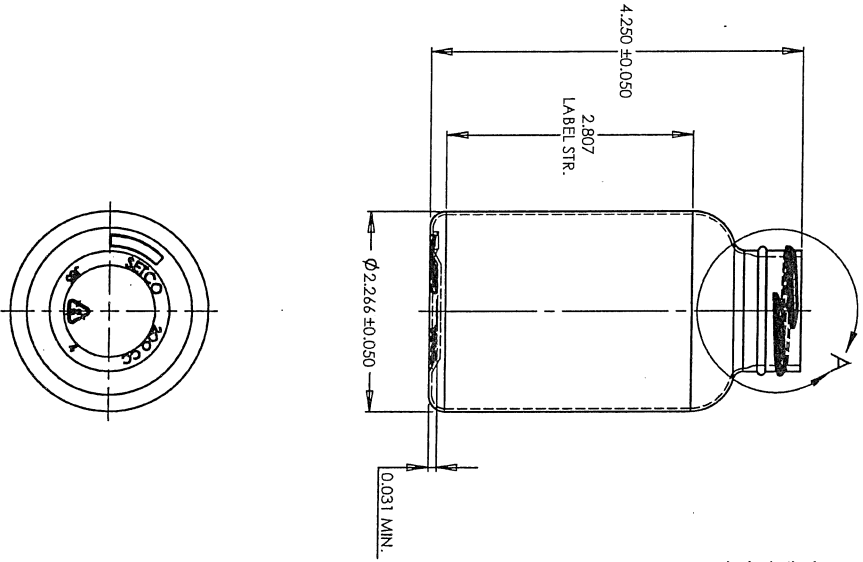
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REV	REVISION DESCRIPTION	BY	ECN #	DATE
A1	RELEASED TO WINDCHILL	RL		5/22/2009
A.2	Removed preliminary note and released for production	BG	26090	11/4/2009
			845	

"T" AND "E" DIMENSIONS ARE THE AVERAGE OF TWO MEASUREMENTS TAKEN ACROSS THE MAJOR AND MINOR AXES. THE LIMITS OF OVALITY ARE .029.



DETAIL A
SCALE 3:1

PART DATA	
MATERIAL	HDP
ESTIMATED WEIGHT (±1 GRAMS)	19.2 GRAMS
OVERRIDE CAPACITY (CVZ)	220/CC ±40CC 7.46G ±.10G
NECK FINISH	M389/40

CUSTOMER

TOLERANCE UNLESS SPECIFIED	
XXX	+/- .031
XX	+/- .053
X	+/- .094
Fractional	+/- 1/8"
Angles	+/- .12°

CONFIDENTIAL	
DESCRIPTION	200cc "A" Line Packer (J85)
REV	900153
DATE	5/22/09
BY	RLKA
CHECKED BY	
DATE	
BY	
DATE	
BY	
DATE	

LEADERSHIP BY DESIGN	
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INDIANA 47706	TEL: (812) 424-2904