

Petrothene

LR734045

High Density Polyethylene
Blow Molding Grade

Melt Index: 0.38 Density: 0.953



Applications

Petrothene LR734045 is a high density polyethylene resin that exhibits good stiffness and environmental stress crack resistance. This product contains stearate as a core rod release for the injection-blow molding process. Typical applications include bottles for household chemicals, food products, and personal care products

Regulatory Status

LR734045 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information about the use of specific products for specific applications.

Processing Techniques

Specific recommendations for processing LR734045 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

| Property | Nominal Value | Units | ASTM Test Method |
|--|---------------|-----------|---------------------|
| Melt Index | 0.38 | g/10 min | D 1238 |
| Density | 0.953 | g/cc | D 1505 |
| Tensile Strength @ Yield | 4,000 | psi | D 638 |
| Elongation @ Break | >500 | % | D 638 |
| Flexural Modulus | 176,000 | psi | D 790 |
| Tensile Impact | 131 | ft-lb/in. | D 1822 |
| Low Temperature Brittleness, F ₅₀ | <-76 | °C | D 746 |
| Heat Deflection Temperature @ 66 psi | 75 | °C | D 648 |
| Vicat Softening Point | 127 | °C | D 1525 |
| Hardness, Shore D | 67 | | D 2240 |
| Environmental Stress Crack Resistance, F ₅₀ | 25 | hrs | D 1693 ¹ |
| | >500 | hrs | D 2561 |

¹ 100% Igepal® CO-630, 50°C

® Igepal is a registered trademark of Rhône-Poulenc Co., Inc.

LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP
Basell Sales & Marketing Company B.V.
Basell Asia Pacific Limited
Basell International Trading FZE
LyondellBasell Australia Pty Ltd

Petrothene is a trademark owned or used by LyondellBasell group companies. *Petrothene* is registered in the U.S. Patent and Trademark Office.

Before using a product sold by one of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY; EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OTHER THAN AS SEPARATELY AGREED BETWEEN THE PARTIES IN WRITING. This product(s) may not be used in the manufacture of any US FDA Class III Medical Device or Health Canada Class IV Medical Device and may not be used in the manufacture of any US FDA Class II Medical Device or Health Canada Class II or Class III Medical Device without the prior written approval by Seller of each specific product or application.

Users should review the applicable Material Safety Data Sheet before handling the product.

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Plastics Color Corporation

www.plasticscolor.com

NC 1175C WHITE

BASE RESIN: LDPE/LLDPE COMBINATION

MELT INDEX: 4 - 12gms/10mins.....ASTM-D-1238 (E)

DENSITY: .916 - .926gms/cm³.....ASTM D-1505

CONCENTRATE:

MELT INDEX: 4 - 8gms/10mins.....ASTM D 1238 (E)

BULK DENSITY: 45 - 51lbs/cu.ft.....ASTM D-1895-67 (B)

PERCENT LOADING: 51.5% ± 2% (Formulated)

U.V. STABILIZER: None Added

MOISTURE ANALYSIS: .5% Maximum.....Elec. Moisture Analyzer

F.D.A STATUS: ACCEPTABLE FOR FOOD CONTACT APPLICATIONS

PELLET SPECIFICATION: 1/8 Strand or Underwater Cut Pellet

PROCESSING: This material is considered to be thermally stable in the normal and customary processing range of 350° - 450° F. Extended polymer and concentrate residence time in the process equipment may require that process temperature profiles be reviewed and/or adjusted to insure a proper and suitable product.

Date: January 29, 2014

PLASTICS COLOR CORPORATION OF NORTH CAROLINA

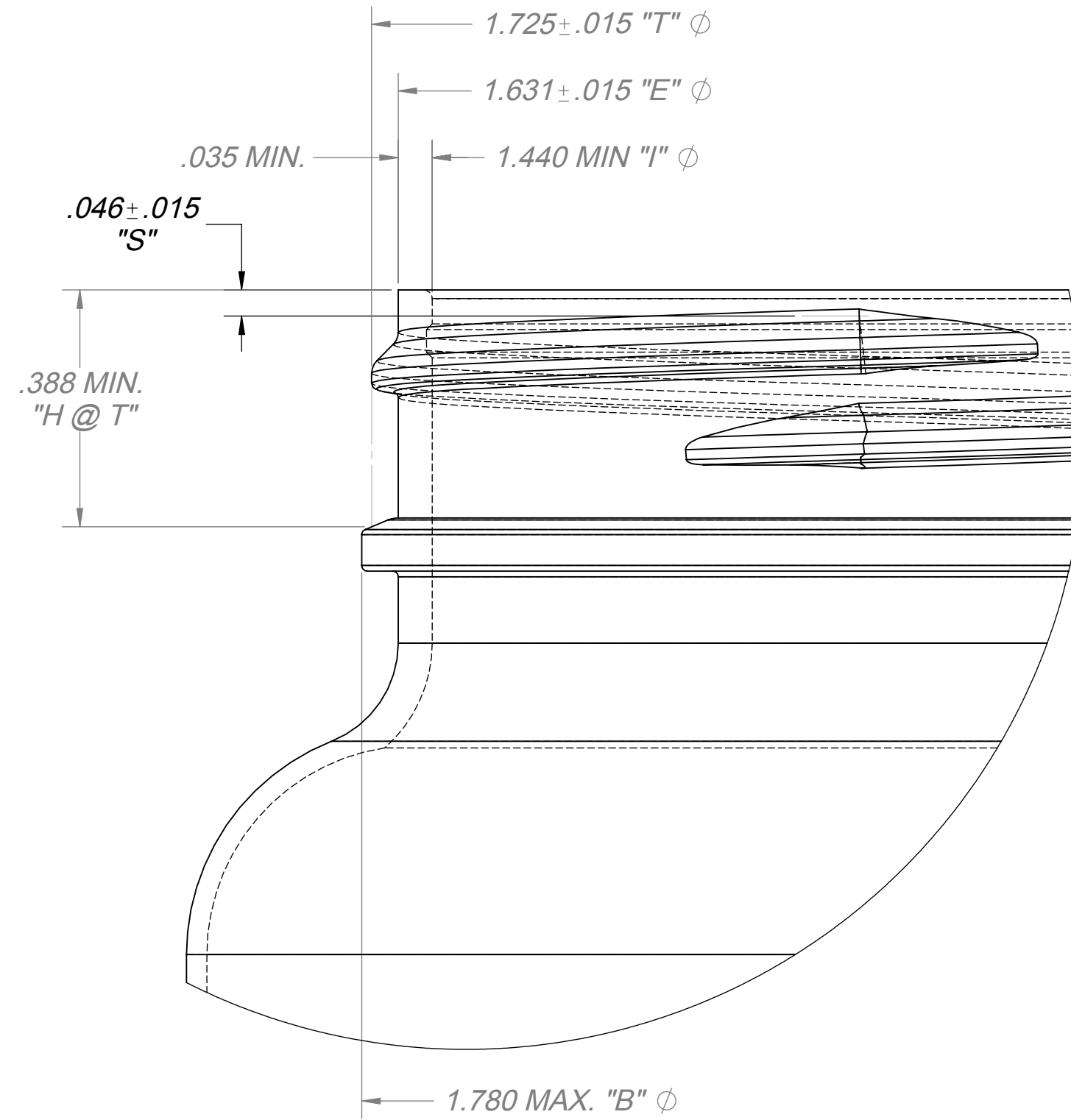
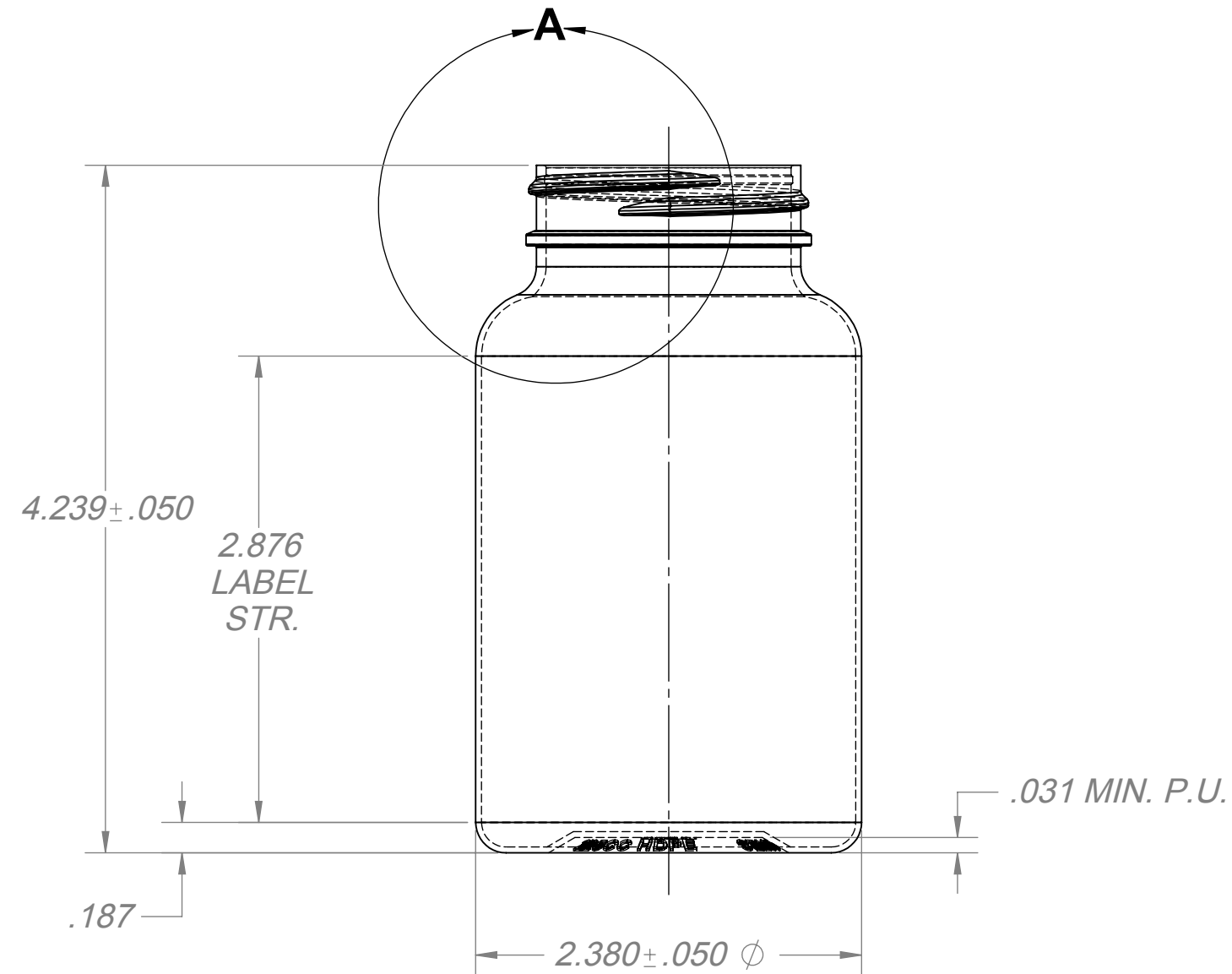
1134 Highway 49 South • Asheboro, NC 27205 • 336-629-9184 • 800-247-7428 • Fax: 336-629-8234

NOTES:

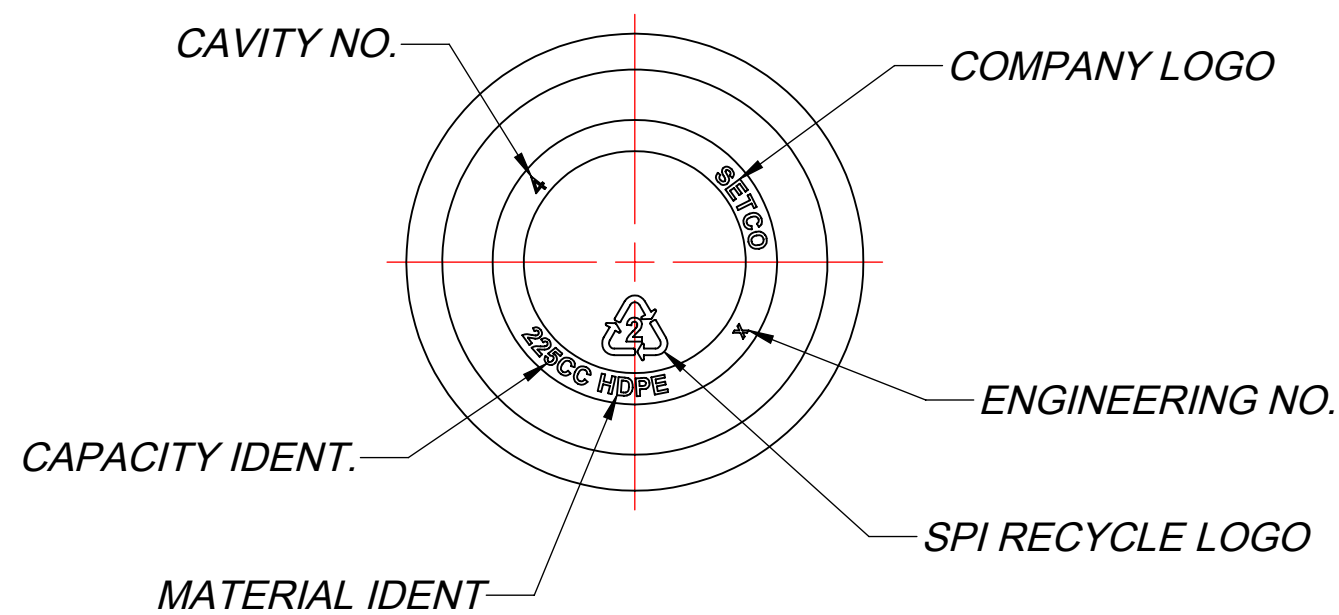
1. ALL NECK FINISH DIAMETER DIMENSIONS ARE THE AVERAGE OF TWO MEASUREMENTS TAKEN ACROSS THE MAJOR AND MINOR AXIS. THE LIMITS OF OVALITY ARE (.036).

2. MIN. WALL THICKNESS THRU LABEL PANEL TO BE .020"

| LET | REVISION DESCRIPTION | BY | ECN # | DATE |
|-----|--|-----|----------|-----------|
| A.1 | RELEASED TO WINDCHILL | BLM | 27090237 | 6/4/2009 |
| A.2 | RELEASED FOR PRODUCTION, REMOVED ENG # J08/J27 | BLM | | 10/8/2009 |



**DETAIL A
SCALE 4 : 1**



| | |
|-------------------|-------------------------------------|
| MATERIAL | HDPE |
| WEIGHT | 22.5gms ± 2.0gms |
| OVERFLOW CAPACITY | 256cc ± 7cc 8.66 floz ± .24 floz |
| NECK FINISH | M45SP400 |

ENG# J77

| |
|----------------------------|
| TOLERANCE UNLESS SPECIFIED |
| xxx ± .031 |
| xx ± .063 |
| x ± .094 |
| FRACTIONAL ± 1/8" |
| ANGLES ± 1/2° |

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| | | | |
|---|---------------------|----------------|-----------------|
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| PRODUCT NAME: | X | DRAWING TYPE: | CUSTOMER |
| DESCRIPTION: | 225cc PACKER | | |
| FILE NAME: | 900163 | PROJECT #: | 900163 |
| CREATED BY: | B.MARTIN | CREATION DATE: | 06/04/09 |
| REVISION LEVEL: | A.2 | SCALE: | 1:1 |
| SHEET SIZE: | C | | |