

**P4C5B-075**

**DESCRIPTION:** Homopolymer

**FEATURES:** Good processability, nucleated and Antistat. Product does not contain animal derived components. Phthalate-free

**APPLICATIONS:** Injection molding: Caps and Closures

PROPERTY	NOMINAL VALUE	SI UNIT	NOMINAL VALUE	ENGLISH UNIT	ASTM TEST METHOD
Melt Flow Rate	20	g/10 min.			D 1238
Density	0.90	g/cm <sup>3</sup>			D 1505
Tensile Yield Strength	37	MPa	5300	psi	D 638
Yield Elongation	9	%	9	%	
Flexural Modulus 1% Secant Tangent	1300 NA	MPa	188 NA	kpsi	D 790
Deflection Temperature @ 66 psi (.455 MPa)	108	°C	226	°F	D 648
Rockwell Hardness			108	R	D 785
Notched Izod @ 23°C	30	J/m	.6	ft-lb/in	D 256
Gardner Impact @ 23°C	14	J	127	in-lb	D 5420

Mar-10



**REGULATORY**

FDA – 21 CFR 177.1520 (c) 1.1a.

Drug Master File listed

**Notice regarding medical applications:**

This Flint Hills product meets certain requirements for use in medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that this Flint Hills product is safe, lawful and technically suitable for the intended use. Flint Hills encourages its customers to review their application with a Flint Hills technical representative to ensure that this product is not used in ways for which it was not intended or tested. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application. Not intended for use in the manufacture of any form of implanted medical or surgical device.

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118 Huntsman Way, Longview, TX 75602

The data and information represented herein refer to typical values obtained in our laboratories by the methods or apparatuses indicated, and should be so considered. Since processing variables are a major factor in product performance, this information should serve only as a guide. Since customers' testing conditions are outside our control, the reproducibility of our data in a customer's testing facility is not guaranteed. Customer should confirm results under its testing conditions. There is no implied warranty of merchantability or fitness for a particular purpose. Establishing satisfactory performance of the product for the intended application is the customer's sole responsibility. No warranty is given concerning the existence or non-existence of any patents claiming any pertinent subject matter presented herein. The Company assumes no obligation, express or implied, or liability for use of or reliance on the information and data presented. FHR disclaims all product warranties expressed or implied, including warranties of fitness for particular purpose or of merchantability. Further, this product is not intended for use in the manufacture of any form of implanted medical or surgical device.



**Plastics Color Corporation**  
www.plasticscolor.com

## **PPC43100 White**

### **BASE RESIN: PP**

**MELT INDEX:** 27-38 gms/10mins.....ASTM-D-1238 (E)

**DENSITY:** .90-.91 gms/cm<sup>3</sup>.....ASTM D-1505

### **CONCENTRATE:**

**MELT INDEX:** 36-46 gms/10mins.....ASTM D 1238 (E)

**BULK DENSITY:** 38-48 lbs/cu.ft.....ASTM D-1895-67 (B)

**PERCENT LOADING:** 50.0%+- 2% (Formulated)

**ZINC STEARATE:** 1% (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 X 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**

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# FoilSeal™ Technical Data Sheet

.035" Pulp FS 5-8

Revision: FS58-08192011

<b>Product</b>	.035" Pulp FS 5-8																				
<b>Scope</b>	Two piece pulp backed heat induction foil inner seal which will provide a tamper-evident bond to PE, PS, PET, PVC, PP and treated glass containers. It is recommended for liquid products and is an alternative to FS 5-4.																				
<b>Composition</b>	<table border="1"> <thead> <tr> <th>Material</th> <th>Standard</th> <th>Metric</th> </tr> </thead> <tbody> <tr> <td>Pulp</td> <td>.035"</td> <td>.889 mm</td> </tr> <tr> <td>Wax</td> <td>-</td> <td>-</td> </tr> <tr> <td>Paper</td> <td>.002"</td> <td>.0508 mm</td> </tr> <tr> <td>Foil</td> <td>.0003"</td> <td>.0076 mm</td> </tr> <tr> <td>Heat Seal</td> <td>.0015"</td> <td>.0381 mm</td> </tr> </tbody> </table>	Material	Standard	Metric	Pulp	.035"	.889 mm	Wax	-	-	Paper	.002"	.0508 mm	Foil	.0003"	.0076 mm	Heat Seal	.0015"	.0381 mm		
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Pulp	.035"	.889 mm																			
Wax	-	-																			
Paper	.002"	.0508 mm																			
Foil	.0003"	.0076 mm																			
Heat Seal	.0015"	.0381 mm																			
Composition does not include adhesive, resin or wax bonding layers (if any).																					
<b>FDA Status:</b> 21 CFR 177.1210	<b>Recommended Storage and Handling:</b> Refer to Website.																				
<b>Drug Master File (DFM):</b> #4544	<b>EU / EP Reg.:</b> Does not meet Article 3a of Reg. No. 2023/2006 and Article 3 of Reg. No. 1935/2004																				
<b>GTR Oxygen:</b> Essentially Zero	<b>MVTR:</b> Essentially Zero																				
<b>Sealing to glass containers:</b> Selig can not guarantee the performance or seal integrity of this materials when applied to any glass (treated or untreated) container. We suggest you contact your glass supplier for recommendations on glass treatments that may or may not improve performance or seal integrity.																					
<b>Print Location (if any):</b> Heat Seal Layer and/or Backing																					

Selig materials are compliant with current USFDA Food allergen Guidelines.  
 Selig materials are compliant with California Proposition 65 labeling requirements.  
 Selig materials are compliant with limitation of heavy metals in packaging per CONEG & EU 94/62/EC, article 11.  
 Recommended for use with dry food products. Is not suitable for use with fatty or alcoholic food types per ECC Reg. № 10/2011. Determining specific organoleptic compatibility per Article 3a of ECC Reg. № 2023/2006 is the responsibility of the food packager.  
 MSDS's are not required as Selig is not a chemical manufacturer or distributor and our products are 'articles' intended for food packaging per 29 CFR 1910.1200 (HazCom).

The information contained within this product data bulletin is to be used as a general guide in determining which structures are offered for sealing to specific container materials. All of the information which we provide is reliable to the best of our knowledge, but the accuracy thereof is not guaranteed. We suggest that consumers determine suitability for their own application.

www.seligsealing.com

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Fax: +1 (815) 657-7584

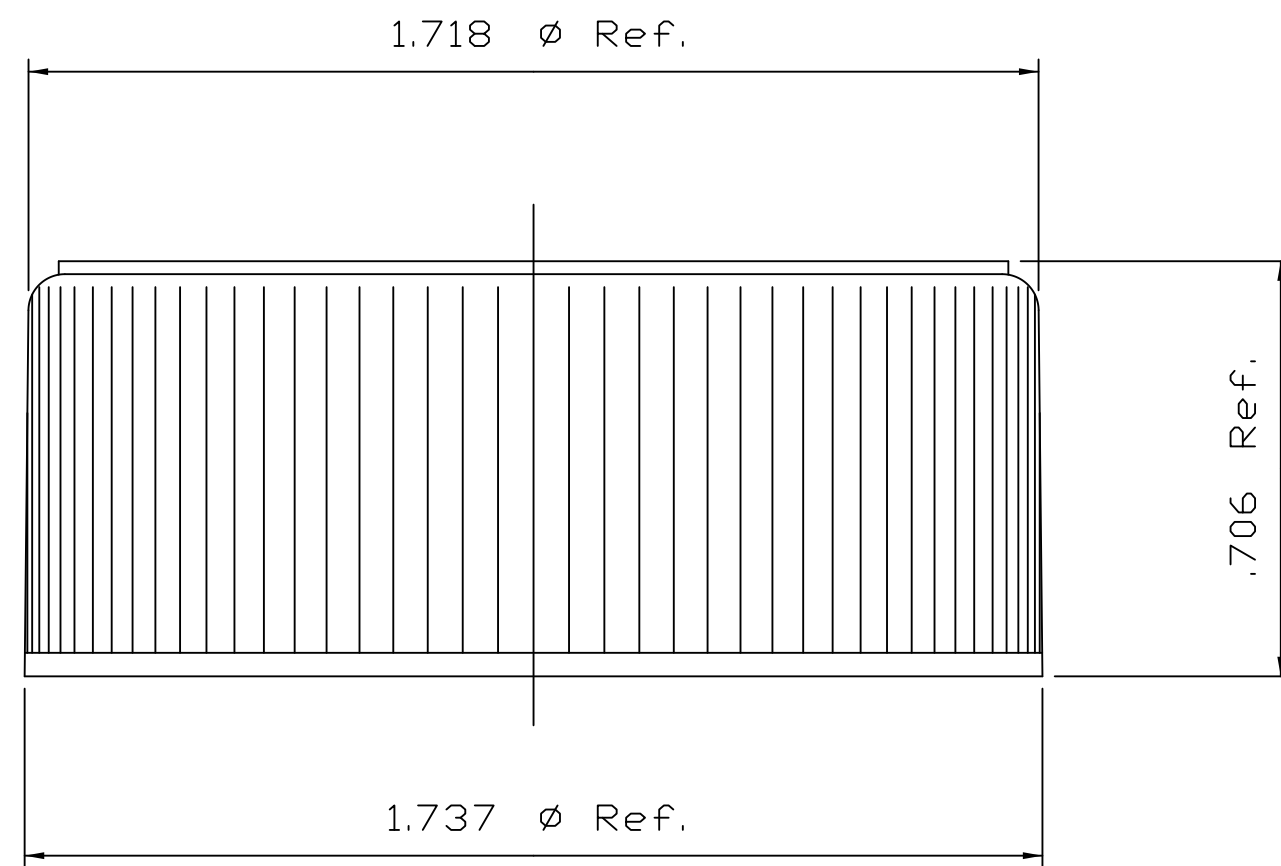
North American Sales  
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Phone: +1 (630) 922-3158  
Fax: +1 (630) 922-8469

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Canada Manufacturing  
145 Edward Street  
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Phone: +1 (905) 727-0114  
Fax: +1 (905) 727-8544

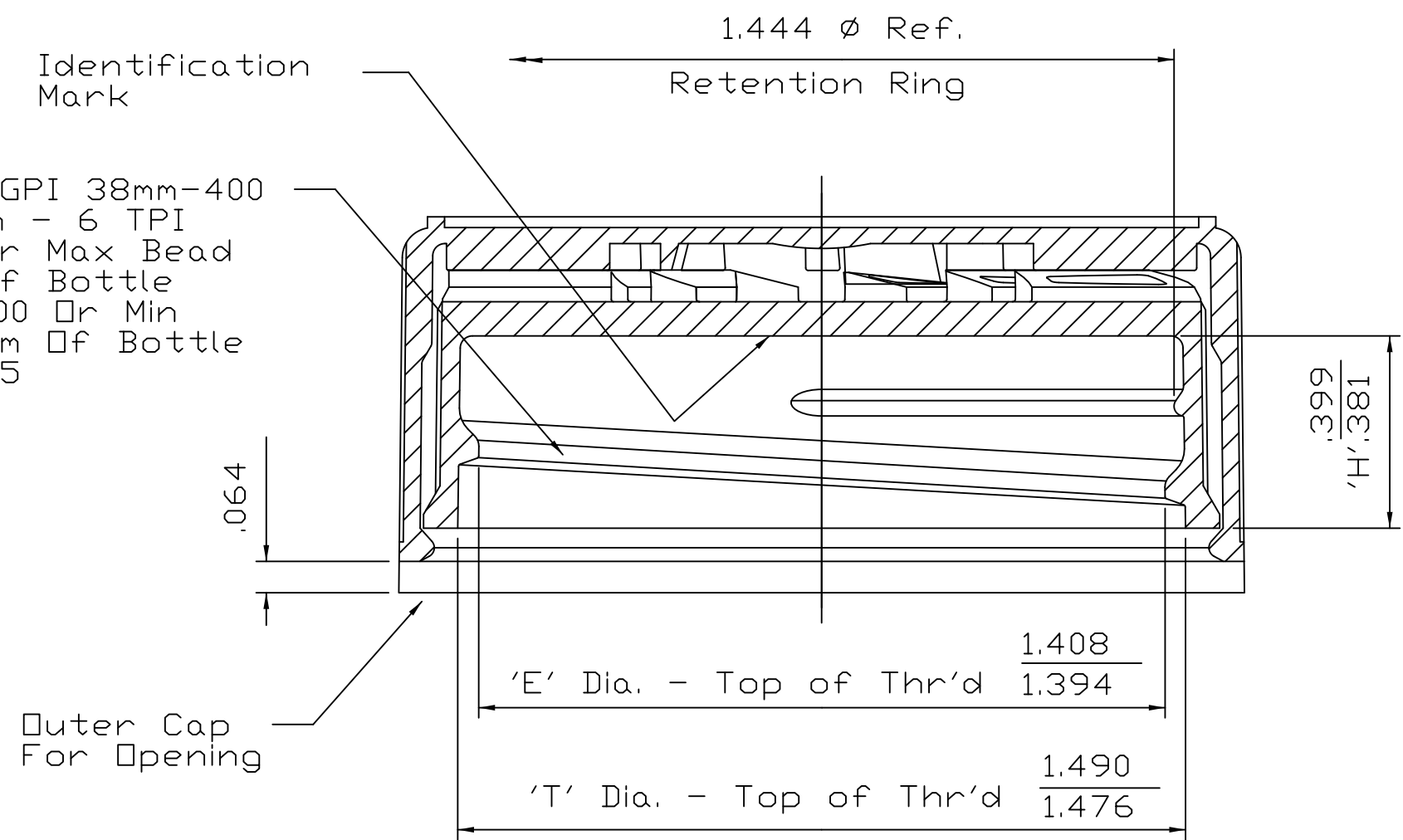
Switzerland Manufacturing  
Bahnhofstrasse 13  
8172 Niederglatt  
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Inner Closure Injection Polypropylene  
 Outer Closure Injection Polypropylene



Ref: GPI 38mm-400  
 Finish - 6 TPI  
 Either Max Bead  
 Dia of Bottle  
 = 1.600 Or Min  
 'H' Dim of Bottle  
 = .495

Bottom of Outer Cap  
 Depressed For Opening



SECTION A-A

(XXX)		(XXX)	
REFERENCE DIMENSIONS ARE NOT INSPECTED AND NO TOLERANCE APPLIED		INSPECTION DIMENSIONS ARE VERIFIED WITH TOLERANCE	
THIS DRAWING IS NOT A CONTROLLED DOCUMENT IF PRINTED OR COPIED FROM THE APPROVED LOCATION			
<b>CONFIDENTIAL</b>			
<small>THIS UNPUBLISHED WORK IS THE PROPERTY OF BERRY GLOBAL INC. AND IS PROTECTED BY TRADE SECRET, COPYRIGHT AND OTHER INTELLECTUAL PROPERTY LAWS AND MAY ALSO BE SUBJECT TO A SPECIFIC OR GENERAL CONFIDENTIALITY AGREEMENT. IT IS NOT TO BE VIEWED BY UNAUTHORIZED PERSONS OR DUPLICATED IN ANY MEDIUM FOR PURPOSES OTHER THAN THOSE FOR WHICH IT IS SPECIFICALLY FURNISHED.</small>			
 101 OAKLEY STREET EVANSVILLE, INDIANA 47706 TEL. (812) 424-2904	JDE TOOL NUMBER: <b>CR3840AFXC3</b>	DRAWING TYPE: <b>CUSTOMER</b>	
	DESCRIPTION: 38mm CR-III CLOSURE ASSEMBLY - 4596		
	DRAWING NO: CP-94232-C	PROJECT NUMBER:	
	CREATED BY: J.KOO	CREATION DATE: 02/04/09	DRAWING REVISION: C
		SCALE: 3:1	SHEET SIZE: C