



**POLYPROPYLENE**

**P4C5B-075**

**DESCRIPTION:** Homopolymer  
**FEATURES:** Good processability, nucleated and antistat  
**APPLICATIONS:** Injection molding; Caps and Closures

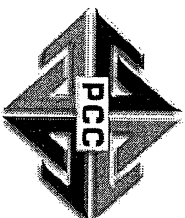
PROPERTY	NOMINAL VALUE	SI UNIT	NOMINAL VALUE	ENGLISH UNIT	ASTM TEST METHOD
Melt Flow Rate	20	g/10 min.			D 1238
Density	0.90	g/cm <sup>3</sup>			D 1505
Tensile Yield Strength Yield Elongation	37 9	MPa %	5300 9	psi %	D 638
Flexural Modulus 1% Secant Tangent	1300 NA	MPa	188 NA	kpsi	D 790
Deflection Temperature @ 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

Aug-07

**REGULATORY**  
FDA – 21CFR 177.1520 c 1.1  
Drug Master File

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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.



**Plastics Color  
Corporation**

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## PPC43100 White

### BASE RESIN: PP COMBINATION

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.

**PLASTICS COLOR CORPORATION OF NORTH CAROLINA**

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Date: April 7, 2008

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# PRODUCT DATA SHEET

## HS 035 HEAT SEAL// WHITE LINED PULP (35)

### PRODUCT DESCRIPTION

**Description:** A paper-backed aluminum foil coated with a clear heat sealable coating blend of high molecular weight ethylene and vinyl acetate copolymers wax bonded to white lined board.

### RECOMMENDED STORAGE CONDITIONS

**FDA Status:** Complies with Federal Regulations of H.E.W., FDA, Sections 175.105, 175.300, 176.170, 176.180, 177.1350, 178.3710, 182.1, 182.90, 186.173. It is entered in SANCAPS food master file FFMF-166 and drug file DMF 2518.

The material should be stored in well ventilated area (temp. 60° - 80°F.; RH - 40% - 60%). Material and lined closures are heat sensitive. Storage or shipping temperatures should not be in excess of 105°F. Curling, blocking, splitting or foil separation may result. If material becomes chilled, it should be stored under the recommended conditions until stabilized. Avoid storing closure liner materials over 60 days. Metal foil is prone to corrosion.

### PHYSICAL AND CHEMICAL PROPERTIES

#### SUGGESTED PRODUCT USES

#### 1. Color

Aluminum

#### 2. Thickness, mils

- (a) Overall 38.31 - 44.48
- (b) Heat Seal Coating 1.50 - 3.00
- (c) Aluminum Foil 0.31 - 0.38
- (d) Paper 2.60 - 3.0
- (e) Wax 0.90 - 1.10
- (f) WL Pulp 33.0 - 37.0

Material is a heat sealable tamper indicating innerseal which can be used for over-the-counter drug products on Polyethylene, Glass PET, PVC, Polystyrene and Polypropylene.

#### 3. Basis Wt. Lbs./Ream 3000 ft<sup>2</sup>

- (a) Overall 365.8 - 526.4
- (b) Heat Seal Coating 20.7 - 41.9
- (c) Aluminum Foil 13.3 - 16.2
- (d) Paper 33.3 - 36.8
- (e) Wax 13.5 - 16.5
- (f) WL Pulp 285.0 - 415.0

Product applications listed above are a partial listing and do not cover all suitable applications. These are recommendations for general categories and user must test for suitability for his specific product. Not suitable for products containing oil.

#### 4. Heat Seal Coating

- (a) Melting Point °F 150 - 160
- (b) Blocking Point °F 130 - 135

#### 5. Gas Transmission: cc/cin<sup>2</sup>/24hrs/atm

- (a) Oxygen nil

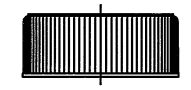
#### 6. Water Vapor Transmission:

- (a) gm/cin<sup>2</sup>/24hrs/100°F/90% RH Near zero

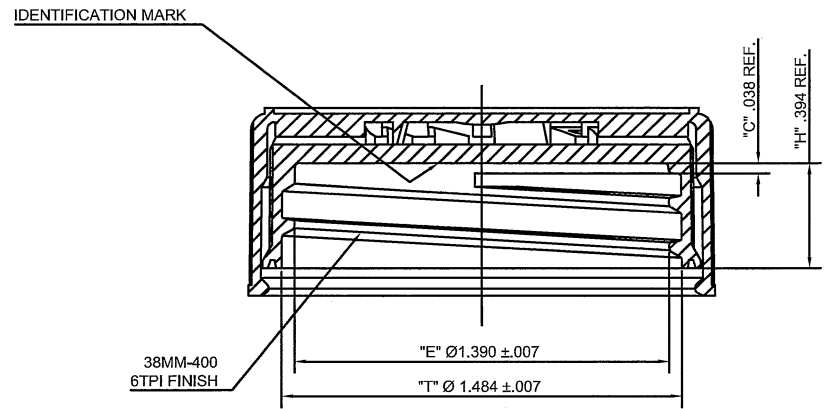
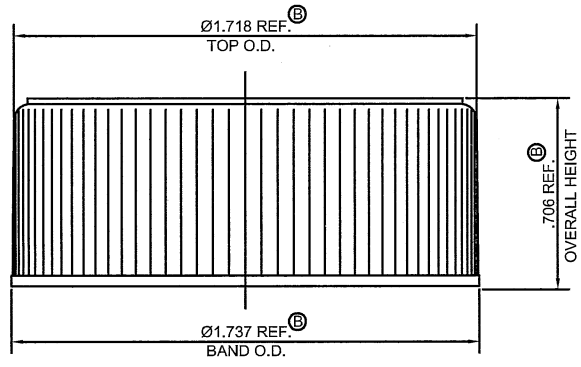
The technical information and suggestions for use made herein are based on SANMCAP research and experience and are believed to be reliable, but such information and suggestions do not constitute a warranty, and no patent liability can be assumed. Since SANMCAP has no control over the conditions under which the product is transported, stored, handled, used or applied, buyer must determine for himself by preliminary tests or otherwise, the suitability of the product for his purposes. All products are sold subject to SANMCAP-S written warranty, which is in lieu of all other warranties or merchantability and fitness for a particular purpose. SANMCAP-S liability on any basis is limited to the price of the product used.



INNER CLOSURE - INJECTION, POLYPROPYLENE  
 OUTER CLOSURE - INJECTION, POLYPROPYLENE



ACTUAL SIZE



SECTION A-A

TOLERANCES EXCEPT (AS NOTED)	INDEX	REVISIONS							
	PARTS LIST ASSEMBLY	9/17/00	(A)						
DECIMAL		10/9/00	(B)						
2 PLC = (A)	DRAWN BCH	CHECK	APPROVED	SCALE	JOB				
3 PLC = ±.015	DATE 6/27/00	DATE	DATE	3:1					
4 PLC =									
FRACTIONAL ±1/64	CLOSURES & PLASTIC CONTAINERS				KERR		JC-5320-A		
ANGULAR ± 0°15'	JAR COVER PART				KERR		38mm-400 CR III (UNSCREWED INNER)		
	P LASTIC PRODUCTS DIVISION, LANCASTER PLANT, LANCASTER, PA.				DRAWING		CP-00149-C		