

SECTION A-A

**DISCLAIMER**

THIS INFORMATION IS PROVIDED AS A GENERAL GUIDE, INCLUDING DIMENSIONS. IT IS THE CUSTOMER'S RESPONSIBILITIES TO SELECT THE PROPER CONTAINER FOR PRODUCT AND APPLICATION COMPATIBILITY.

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REF NO.:

DWG30916

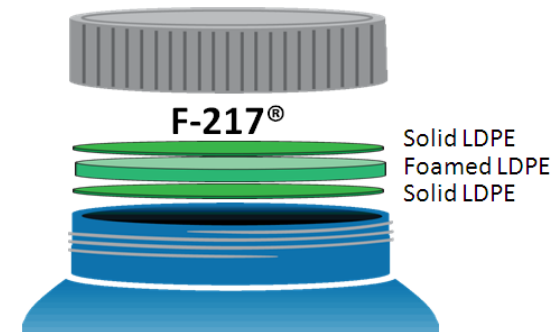
DESCRIPTION:

28-400 Black PP Smooth Top, Ribbed Sides Cap with F217 & PS22 Plain Liner

**THREAD DETAILS:**  
6 THREADS PER INCH, 0.167" PITCH

REFERENCE	TOLERANCE	UNITS	DIMENSION
E	± 0.010 [0.25]	in [mm]	1.010 [25.65]
T	± 0.010 [0.25]	in [mm]	1.095 [27.81]
H	± 0.010 [0.25]	in [mm]	0.390 [9.91]
OAH	± 0.010 [0.25]	in [mm]	0.445 [11.30]
OD	± 0.010 [0.25]	in [mm]	1.205 [30.61]
PART WEIGHT	±0.15	g	1.93

- This data sheet describes F-217® products
- This product is a three-ply co-extruded liner consisting of a foamed Low Density Polyethylene (LDPE) core sandwiched between two layers of solid Low Density Polyethylene



## Typical Product Attributes

### Construction

Structure	Solid LDPE / Foamed LDPE / Solid LDPE	Solid LDPE / Foamed LDPE / Solid LDPE
Color	White or as Specified	White or as Specified
Density		
for 20 ~ 30 mil (0,51 ~ 0,76 mm)	0,48 ± 0,03 g / cm <sup>3</sup>	30 ± 2 lbs / ft <sup>3</sup>
for 35 ~ 125 mil (0,89 ~ 3,18 mm)	0,40 ± 0,03 g / cm <sup>3</sup>	25 ± 2 lbs / ft <sup>3</sup>
Thickness Tolerance		
for 20 ~ 60 mil (0,51 ~ 1,52 mm)	± 0,127 mm	± 5 mil
for 65 ~ 90 mil (1,65 ~ 2,29 mm)	± 0,178 mm	± 7 mil
for 95 ~ 125 mil (2,41 ~ 3,18 mm)	± 0,254 mm	± 10 mil
Available Width		
for 20 ~ 60 mil (0,51 ~ 1,52 mm)	22,2 ~ 1016,0 mm	7/8 ~ 40 inch
for 65 ~ 125 mil (1,65 ~ 3,18 mm)	25,4 ~ 228,6 mm	1 ~ 9 inch
Width tolerance	± 1,6 mm	± 1/16 inch

### Regulatory Compliance

FDA Compliance	21 CFR 177.1520 (Olefin Polymers) 21 CFR 177.1210 (Closures with Sealing Gaskets for Food Containers) 21 CFR 175.300 (Resinous and Polymeric Coatings)
Drug Master File (DMF)	2434
Other Compliances	USFDA Food Allergen Guidelines; California Proposition 65 Labeling Requirements; Limitations of Heavy Metals in Packaging per CONEG & EU 94/62/EC, Article 11

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# PRODUCT DATA SHEET

## PRESSURE SEAL

MRP Description - (022)PRESSURE SEAL .020 PLAIN

### PRODUCT DESCRIPTION

**Description:** A polystyrene white foam coated with a pressure sensitive coating. Available plain or printed.

**FDA Status:** Complies with Federal Regulations of H.E.W., FDA, sections 175.125, 175.300, 177.1640, 178.3010, and 178.3710. It is entered in SANCAP Liner's food master file FMF 166 and drug master file DMF 2518.

### RECOMMENDED STORAGE CONDITIONS

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

### SUGGESTED PRODUCT USES

Material is a styrene foam innerseal coated with a torque activated coating. It has adhesion to glass and plastic bottles with metal or plastic caps. Sealing properties should be checked after being stored for 12 hours.

**Dry Products**  
**Candy**

**Spices**  
**Syrup**

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

### PHYSICAL AND CHEMICAL PROPERTIES

1. **Color** White
2. **Thickness, mils**
  - a) Overall 20.0 - 25.0
  - b) Wax 2.0 - 3.0
  - c) Foam 18.0 - 22.0
3. **Basis Wt. Lbs./Ream 3000 ft.<sup>2</sup>**
  - a) Overall 92.46 - 120.12
  - b) Wax 25.46 - 38.12
  - c) Foam 67.00 - 82.00
4. **Gas Transmission: cc/cin<sup>2</sup>/24hrs/1atm**
  - a) Oxygen 109.68
5. **Water Vapor Transmission**
  - a) gm/cin<sup>2</sup>/24hrs/100°F/90%RH 0.27
6. **Melting Point °F** 170 – 180  
**Softening Point °F** 148 - 152

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