

FPT300F

Homopolymer Polypropylene

- Good Mold Release, Excellent Part Finish (Low Bloom)
- Suggested Uses Include Housewares, Caps and Closures, Mugs / Cups, Thin-Walled Containers

| Property | Units | Typical Value | Test Method | |
|--|------------------|------------------|-------------|--|
| Nominal Melt Flow Rate (230°C/2.16kg) | g/10 min | 30 | ASTM D1238 | |
| Tensile Strength at Yield (2 in/min, 50 mm/min) | psi MPa | 4,800 33 | ASTM D638 | |
| Elongation at Yield (2 in/min, 50 mm/min) | % | 10 | ASTM D638 | |
| Flexural Modulus (0.05 in/min, 1.3 mm/min, 1% secant) | psi MPa | 200,000 1,379 | ASTM D790A | |
| Notched Izod Impact Strength at 23°C | ft-lbs/in J/m | 0.7 37 | ASTM D256A | |
| Rockwell Hardness | R | 104 | ASTM D785 | |

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For cautions and other information relating to handling of

550 Technology Drive

Revision Date: Monday, March 23, 2009

and exposure to this product, please see material safety data sheet code number C4001 published by Braskem.

Pittsburgh, PA 15219 1-800-223-8871

www.braskem.com



| Raw Material Product Data Sheet | | | |
|---------------------------------|------------------|--|--|
| Product Name: MRPBK01 | Revision #: A | | |
| Revision Date | August 14, 2019 | | |
| Effective Date | October 14, 2019 | | |

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Product Description:

FDA Compliant black colorant intended to be used with injection-molded plastic resin

Product Data:

Additives None

<u>Typical Properties</u> <u>Typical Value</u>

| <u> </u> | - 1 p. 1 d. | |
|-------------------|---|--|
| Delta E Tolerance | Less than 2.00 | |
| Visual Evaluation | Visual match to approved color standard | |

FDA Compliance/Status

| FDA, Title 21 CFR Food & Drug Contact | |
|---------------------------------------|--|
|---------------------------------------|--|

This colorant formulation has been manufactured using FDA approved ingredients and, when used appropriately (with an FDA approved resin), will meet FDA contact applications regulated under the provisions of the Food, Drug, and Cosmetic Act (and subsequent amendments as outlined in Title 21 of the Code of Federal Regulation.

Additional Compliance/Status (and amendments as of the date of this document)

| Proposition 65, Safe Drinking Water and Toxic Enforcement Act | ☐ Not |
|---|-------|
| CONEG, Model Toxics in Packaging Legislation | ☐ Not |
| EU 2015/863, as regards the list of restricted substances, RoHS | ☐ Not |

For further regulatory information, please contact Mold Rite Plastic's customer service or sales department.

This product data sheet addresses all colorants that meet the above requirements & specifications. Data was obtained from supplier product data sheets (where applicable). This data is intended to be used as a guide only. It is ultimately the customer's responsibility to determine the suitability of the material for their specific application, and to be responsible for assuring compliance with all applicable laws and regulations.



PRODUCT DATA SHEET HS035 N/20 LD Foam

MRP Description -

(21N)HS035N/20LD.020 FOAM PRT R SFYP 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 on the foil, laminated to low dense polystyrene foam.

FDA Status: Complies with Federal Regulations of H.E.W.,FDA,Sections 175.105,175.300, 176.170,176.180, 177.1350,177.1640, 178.3010,178.3710, and 182.1,

PHYSICAL AND CHEMICAL PROPERTIES

| 1. Color | Aluminum |
|--|----------------|
| 2. Thickness, mils | |
| (a) Overall | 21.22 - 27.11 |
| (b) Heat Seal | 1.50 - 3.0 |
| (c) Aluminum | 0.31 - 0.38 |
| (d) Paper (N) | 1.41 - 1.73 |
| (e) Polystyrene Foam | 18.00 - 22.00 |
| 3. Basis Wt. Lbs./Ream 3000 ft ² | |
| (a) Overall | 94.44 - 141.51 |
| (b) Heat Seal | 20.7 - 41.9 |
| (c) Aluminum | 13.3 - 16.2 |
| (d) Paper (N) | 20.79 - 21.21 |
| (e)Polystyrene Foam | 39.65 - 62.20 |
| 4. Heat Seal Coating | |
| (a) Melting Point °F | 150 - 160 |
| (b) Blocking Point °F | 130 - 135 |
| 5. Gas Transmission: cc/cin²/24hrs/1a | aton. |
| (a) Oxygen | near zero |
| 4.40 | |
| 6. Water Vapor Transmission | |
| a) gm/cin ² /24 hrs/100° F/90% RH | near zero |

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 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.

SUGGESTED PRODUCT USES

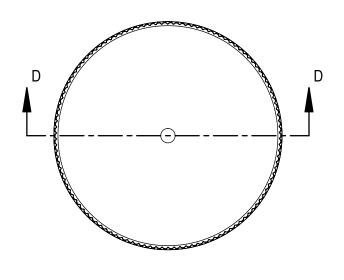
Material is a heat sealable tamper indicating innerseal which can be used for over-the-counter drug products on Polyethylene, Glass, PET, PVC, Polystyrene and Polypropylene.

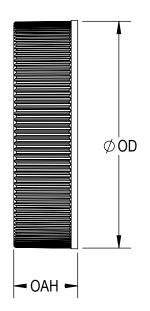
Dry Products

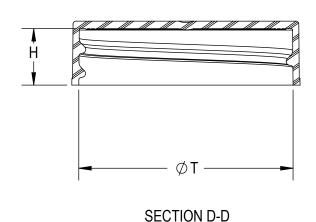
Product applications listed above are a partial listing and do not cover all suitable applications. These are recommendations for general categories and user must test for suitability for his specific product. Not suitable for products containing oil.

The technical information and suggestions for use made herein are based on SANCAP 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 SANCAP 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 SANCAP'S written warranty, which is in lieu of all other warranties or merchantability and fitness for a particular purpose. SANCAP'S liability on any basis is limited to the price of the product used.

file:H\$035N/20 LDF 01/11/05







THREAD DETAIL INFORMATION 6 THREADS PER INCH, 0.167 PITCH REFERENCE **TOLERANCE DIMENSION UNITS** Ε ±0.010 [0.25] 1.394 [35.41] in [mm] Т ±0.010 [0.25] 1.488 [37.80] in [mm] Η ±0.008 [0.20] 0.392 [9.96] in [mm] OAH 0.444 [11.28] ±0.008 [0.20] in [mm] OD ±0.015 [0.38] 1.590 [40.39] in [mm] PART WEIGHT ± 0.30 2.85 g

STATIC TORQUE RECOMMENDATION 17-26 in-lbs

THIS REQUIREMENT MAY VARY DEPENDING UPON BOTTLE MATERIAL, NECK FINISH, AND CAPPING EQUIPMENT

THE CLOSURE DIMENSIONS
DEPICTED ARE THOSE WHICH HAVE GENERALLY BEEN FOUND TO BE FUNCTIONAL BASED ON INDUSTRY EXPERIENCE BECAUSE OF VARIABILITY IN GLASS AND PLASTIC CONTAINER FINISHES, EACH CLOSURE/FINISH SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND TESTED TO ENSURE IT MEETS APPLICABLE PERFORMANCE CRITERIA. SEE QUALITY ASSURANCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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DRAWING TYPE: CUSTOMER

REPLACES DRAWINGS:

C-3008

DIMENSIONS ENCLOSED IN ()
INDICATE REFERENCE
DIMENSIONS AND NO TOLERANCE
LIMITS ARE ESTABLISHED

TOLERANCES LINLESS OTHERWISE SPECIFIED

| | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | | | | | |
|---|---------------------------------------|-----------|----------------|-----------|--|--|--|--|--|
| | DIMENSION (inches) | TOLERANCE | DIMENSION (mm) | TOLERANCE | | | | | |
| | 0-0.787 | ±0.006 | 0-20 | ±0.152 | | | | | |
| | 0.788-1.181 | ±0.008 | 21-30 | ±0.203 | | | | | |
| | 1.182-2.756 | ±0.012 | 31-70 | ±0.305 | | | | | |
| | 2.757-3.937 | ±0.016 | 71-100 | ±0.406 | | | | | |
| 3.938-5.096 5.097-7.874 7.875-9.843 | | ±0.020 | 101-150 | ±0.508 | | | | | |
| | | ±0.024 | 151-200 | ±0.610 | | | | | |
| | | ±0.032 | 201-250 | ±0.813 | | | | | |
| | ANOUGH AD TOLEDANIOE OR | | | | | | | | |

ANGULAR TOLERANCE ± 2°

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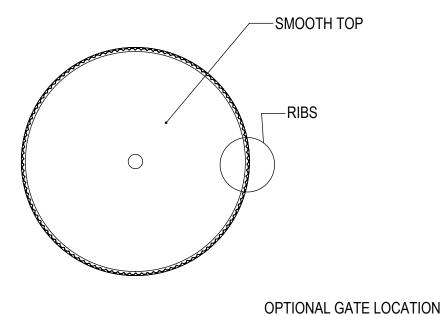
DISTRIBUTION DRAWING NAME CODE

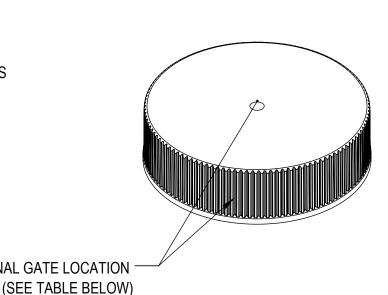
RAWING NAME 38-400 CT CLOSURE RS (Ribbed - Smooth)

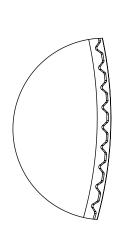
DRAWING NUMBER

CQA - 10015 MATERIAL DRAWN BY. 5/5/2017 **POLYPROPYLENE** MODEL NUMBER PM 10498 38-400 CT ENG APPR. 1/11/2019 SHEET SIZE SHEET REV NE SCALE QA APPR. 01/11/2019 00.AC 3:2 8.5in*11in 1 of 3

| | | | • | J | | , | | , | | 0 |
|---|-----------|------|-----|--------------------------------------|------|-----------------|------|---|-----|-----|
| | REVISIONS | | | | | | | | | |
| | DATE | REV. | N/P | | | DESCRIPTION | | | ENG | DRW |
| | 2/26/2014 | 00 | AA | | | INITIAL RELEASE | | | СМ | LB |
| | 4/12/2017 | 00 | AB | | UPDA | ATED DRAWING FO | RMAT | | JDM | DAS |
| 1 | 2/20/2018 | 00 | AC | DRAWING UPDATED TO THE STEEL OR P | | | | | | AMK |







DETAIL RIBS SCALE 5:1

| MOLD NUMBER | GATE LOCATION |
|-------------|---------------|
| 38003 | SIDE |
| 38004 | SIDE |
| 38011 | SIDE |
| 38012 | SIDE |
| 38015 | SIDE |
| 38016 | SIDE |
| 38024 | SIDE |
| 38025 | SIDE |
| 38030 | TOP CENTER |

THE CLOSURE DIMENSIONS
DEPICTED ARE THOSE WHICH HAVE GENERALLY BEEN FOUND TO BE FUNCTIONAL BASED ON INDUSTRY EXPERIENCE BECAUSE OF VARIABILITY IN GLASS AND PLASTIC CONTAINER FINISHES, EACH CLOSURE/FINISH SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND TESTED TO ENSURE IT MEETS APPLICABLE PERFORMANCE CRITERIA. SEE QUALITY ASSURANCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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| DRAWING TYPE: CUSTOMER | | | | | | |
|---|---|-----------------|---------------------------|--|--|--|
| | REFERENCES: 38003, 38004, 380 38015, 38016, 380 | | INDICATE R DIMENSIONS AND | NCLOSED IN () EFFERENCE) NO TOLERANCE ESTABLISHED | | |
| | T | OLERANCES UNLES | S OTHERWISE SPECIF | TED | | |
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| | 7.875-9.843 | ±0.032 | 201-250 | ±0.813 | | |
| | | ANGULAR T | OLERANCE ± 2° | | | |
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| | 3 | I | 4 | 1 5 | | |

Innovative • Reliable • Responsive



DISTRIBUTION DRAWING NAME CODE

38-400 CT CLOSURE RS (Ribbed - Smooth)

DRAWING NUMBER

CQA - 10015 MATERIAL 5/5/2017

DRAWN BY. POLYPROPYLENE MODEL NUMBER PM 10498 38-400 CT ENG APPR. 1/11/2019 SHEET SIZE SHEET REV.NP SCALE QA APPR. Admin 01/11/2019 00.AC 8 .5 X 11

