

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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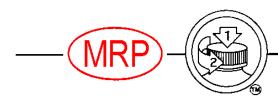
For cautions and other information relating to handling of

550 Technology Drive

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

Pittsburgh, PA 15219 1-800-223-8871 Revision Date: Monday, March 23, 2009

www.braskem.com



1 PLANT STREET, P.O. BOX 160 PLATTSBURGH, NY 12901 (518) 561-1812 http://moldriteplastics.com

Product Data Sheet

CP0001 Grade

Polypropylene, Impact Copolymer

Product Description

CP0001 is a high flow, high impact polypropylene copolymer grade resin designed for molding applications requiring good balance stiffness, impact resistance and process ability. This grade specification designated by Mold-Rite Plastics covers all copolymer resins that meet the typical value data listed below.

Regulatory Compliance

FDA-21 CFR 177.1520(c) 3.1 for Food & Drug Contact RoHS Compliant CONEG/Heavy Metal Compliant Proposition 65 Compliant EU Directive 2002/72/EC Compliant

| Typical Properties | Method | Typical Value | Unit |
|--------------------|--------|---------------|------|
| | | | |

| Physical | | | |
|----------------------------|-------------|---------|--------------------|
| Density – Specific Gravity | ASTM D 792 | .900905 | sp gr. 23/23° C |
| Melt Flow Rate | ASTM D 1238 | 35.0 | g/10 min |

Mechanical

| Tensil Strength @ Yield | ASTM D 638 | | |
|---------------------------------------|------------|-------------------|-----|
| (2 in/min) | | 3,100 - 4,000 | PSI |
| (50 mm/min) | | 21.4 - 27 | MPa |
| Flexural Modulus | ASTM D 790 | | |
| (0.05 in/min, 1% Secant, Procedure A) | | 160,000 - 210,000 | PSI |
| (1 mm/min, 1% Secant, Procedure A) | | 1,103 - 1,450 | MPa |

| Impact | | | |
|---------------------|------------|-----------|----------|
| Notched Izod impact | ASTM D 256 | | |
| (23 °C, Method A) | | 1.4 - 2.4 | Ft-lb/in |
| | | 75 - 128 | J/m |

Thermal

| Heat Deflection (Softening Point) Unannealed | ASTM D 648 | | |
|--|------------|-----------|----|
| DTLU @ 66psi | | 212 - 225 | °F |
| | | 88 - 107 | °C |
| Processing Range | | 400 - 500 | °F |

For further regulatory information contact Mold-Rite Plastics customer service or sales department.

Notes: These are typical properties not to be construed as specifications. Mold-Rite Plastics reserves that right to include any other resin grade that meets that above data values and regulatory requirements.

This product data sheet covers multiple resin formulations and include any other resin grade that meets the above typical data values and regulatory requirements. All listed grades have similar physical, chemical and processing properties. Listed known grades; 44FY01; SG802N; AP5135H; 4820WZ; 6535A; 2535A

All results were obtained from manufacturer product data sheets (where applicable). The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of Mold-Rite Plastics products must be guided by the users own methods for selection of proper formulation. Mold-Rite Plastics disclaims any responsibility for misuse or miss application of its products. Mold-Rite Plastics liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option for replacement not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.



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

Product Name:

mrpBK01

Product Description:

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

Product Data:

Additives

None

| Typical Properties | Typical Value |
|--------------------|---|
| 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 | 🛛 Compliant | 🗆 Not |
|---------------------------------------|-------------|-------|
| | | |

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 | 🛛 Compliant | 🗆 Not |
|---|-------------|-------|
| CONEG, Model Toxics in Packaging Legislation | 🛛 Compliant | 🗆 Not |
| EU 2015/863, as regards the list of restricted substances, RoHS | 🛛 Compliant | 🗆 Not |

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





HS 035 HEAT SEAL/20F

- Designed as a one-piece, polystyrene backed, induction heat seal with an ethylene vinyl acetate based sealant layer that gives a tamper evident bond to Polyethylene (PE), Polypropylene (PP). Polyester (PET), Polystyrene (PS), Vinyl (PVC) and glass containers.
- Available with standard or custom print.

Typical Product Attributes

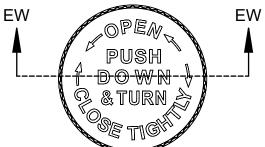
| Construction | | | | | | | |
|---|--|--|-----------------------------|--|--|--|--|
| | | SI (µm) | US (Mils) | | | | |
| Polystyrene Foam Paper Aluminum Foil Heat Seal | | 508,0 71,1 8,9 63,5 | 20.0 2.8 0.35 2.25 | | | | |
| Minimum Width Width Tolerance | | 25,4 mm ± 1,6 mm | 1.0 inch ± 1/16 | | | | |
| Properties | | | | | | | |
| Water Vapor Transmission (WVTR) | Essenti | ally Zero | | | | | |
| Gas (O ₂) (GTR) | Essenti | ally Zero | | | | | |
| Regulatory Compliance | | | | | | | |
| FDA Compliance | 21 CFR 177.1640 Polystyrene and rubber-modi | fied polystyrene. | | | | | |
| | 21 CFR 177.1350 Ethylene-vinyl acetate copoly | mers. | | | | | |
| | 21 CFR 177.1210 Closures with sealing gaskets | s for food containers | | | | | |
| | 21 CFR 176.180 Components of paper and pap | 21 CFR 176.180 Components of paper and paperboard in contact with dry foods. | | | | | |
| | 21 CFR 176.170 Components of paper and pap | erboard in contact with a | queous and fatty foods. | | | | |
| Drug Master File (DMF) | 2518 | | | | | | |
| Other Compliances | USFDA Food Allergen Guidelines; California Pr of Heavy Metals in Packaging per CONEG & El | | quirements; Limitations | | | | |

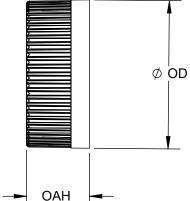
Original Date: 2016-03-25 Revised Date: N/A Revision Number: 0 Created by PEY

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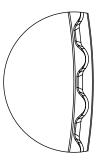
| | DE TIGHT | y | | | | | ОАН - | | _ |
|---|---|--|---|--|------------------------|----------------|-------------------------------|--------------------------|------------------------------|
| | | R | | | | | | | |
| H H Seated Inner | | | | | (6) THREA | AD PEF | R INCH, (.167) PIT | CH, 380 ° I | FULL DEPTH THREAD |
| | | | | | REFERE | NCE | TOLERANCE | UNITS | DIMENSION |
| | | | | | E | | ± 0.015 [0.38] | in [mm] | 1.182 [30.02] |
| - | ØE | | | | | | 1.276 [32.41] | | |
| | ØT► | | | | H (Seat | ted) | Reference | in [mm] | 0.519 [13.18] |
| F | | | | | H (Inn | er) | ± 0.010 [0.25] | in [mm] | 0.390 [9.91] |
| SE | CTION EW-EV | v | | | OD | | ± 0.020 [0.51] | in [mm] | 1.545 [39.24] |
| | | v | | | OAH | 4 | ± 0.016 [0.41] | in [mm] | 0.667 [16.94] |
| _ | | | | | PART WE | EIGHT | ±1.4 | g | 5.9 |
| STATIC TORQUE RECOMMENDATION 15-25 in-Ibs DRAWING TYPE : CUSTOMER THIS REQUIREMENT MAY VARY DEPENDING UPON BOTTLE MATERIAL, NECK FINISH, AND CAPPING EQUIPMENT DIMENSIONS ENCLOSED IN () INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED TOLERANCES UNLESS OTHERWISE SPECIFIED DIMENSION (mm) TOLERANCE DIMENSION (inches) TOLERANCE DIMENSION (mm) TOLERANCE | | | | | | ARF LD-RITE | | | |
| 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 CLOSURF/FINISH SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND TESTED TO ENSURE IT MEETS APPLICABLE PERFORMANCE CRITERIA. SEE QUALITY ASSURANCE | 1.182-2.756 ±0. 2.757-3.937 ±0. 3.938-5.096 ±0. 5.097-7.874 ±0. | 008 012 016 020 024 032 | 21-30 31-70 71-100 101-150 151-200 201-250 | ±0.203 ±0.305 ±0.406 ±0.508 ±0.610 | | DISTR | D DRAWING NUMBER | 33-400 C PDT (E | RC Assm mboss) |
| ^H SPECIFICATIONS FOR ADDITIONAL INFORMATION. MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES | IONS FOR ADDITIONAL INFORMATION. ANGULAR TOLERANCE ± 2° | | | | | BDG 5 | /13/2016 MATERIAL | | OPYLENE |
| RESERVES THE RIGHT TO REVISE ANY OR ALL SPECIFICATIONS AND REQUIREMENTS. | PROPRIET/ THIS DRAWING IS PROTECTE PROPRIETARY TO MOLD-RITI ANY REPRODUCTION, DISCLO | D BY COP E, WEATH | ERCHEM AND STULL | TECHNOLOGIES. | DRAWN BY. ENG APPR. | | /6/2017 MODEL NUMBER: PM 1 | 10139 33-400 | CRC PDT Assembly |
| 1 2 | ANY REPRODUCTION, DISCLC THEREOF IS EXPRESSLY PROI AND STULL TECHNOLOG 3 | HIBITED E | XCEPT AS MOLD-RIT | E, WEATHERCHEM | QA APPR. | REL 9 | /20/2017 SCALE 6 1:1 | SHEET SIZE 8.5" X 11" | SHEET REV.NP 1 of 3 00.AB |

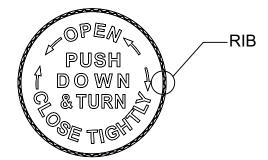




| | 4 | | 5 | 0 | 1 | | 8 |
|----------|-----|-----|-------------------------------|-----------------------------------|---|-----|------|
| DATE | REV | N/P | PRODUCT DRAWING REQUEST | DESCRIPTION DRAWING RELEASED | | ENG | DRWN |
| 05/13/16 | 00 | AA | | | | BDG | BDG |
| 07/06/17 | 00 | AB | | UPDATED DRAWING FOR REFERENCE UPD | | BDG | BDG |







DETAIL RIB SCALE 6 : 1 (58) EQUISPACED RIBS

