Braskem

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

For cautions and other information relating to handling of and exposure to this product, please see material safety data sheet code number C4001 published by Braskem.

550 Technology Drive
Pittsburgh, PA 15219
1-800-223-8871

Revision Date: Monday, March 23, 2009

www.braskem.com

MOLD-RITE PLASTICS, LLC
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	.900 - .905	sp gr. 23/23° C
Melt Flow Rate	ASTM D 1238	35.0	g/10 min
Mechanical			
Tensil Strength @ Yield (2 in/min) (50 mm/min)	ASTM D 638	 3,100 – 4,000 21.4 – 27	 PSI MPa
Flexural Modulus (0.05 in/min, 1% Secant, Procedure A) (1 mm/min, 1% Secant, Procedure A)	ASTM D 790	 160,000 – 210,000 1,103 – 1,450	 PSI MPa
Impact			
Notched Izod impact (23 °C, Method A)	ASTM D 256	 1.4 – 2.4 75 – 128	 Ft-lb/in J/m
Thermal			
Heat Deflection (Softening Point) Unannealed DTLU @ 66psi	ASTM D 648	 212 – 225 100 – 107	 °F °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

Revision Date: 09/15/2010

MOLD-RITE PLASTICS INC.
1 PLANT STREET, P.O. BOX 160
PLATTSBURGH, NY 12901
(518) 561-1812
http://www.mrpcap.com

Product Data Sheet

MRPBK01 Black

Product Description

This specification, designated by Mold-Rite Plastics, covers all colorants that meet the typical value data listed below;

Regulatory Compliance

FDA – Title 21 CFR Section 170-199 for Food & Drug Contact
RoHS Compliant
CONEG/Heavy Metal Compliant
Proposition 65 Compliant

Typical Properties	Typical Value
Specific Gravity	.88-.92
Melt Index	Available upon request
Pellets	Standard
Recommended Let Down Ratio	100:1
Carrier Resin	PP
Estimated Heat Stability	320 °F
Visual Evaluation	Excellent
Additives	None
DE Tolerance	< 2.00

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 colorant that meets that above data values and regulatory requirements.
This product data sheet covers multiple colorant formulations that meet the above typical data values and regulatory requirements. All listed formulas have similar physical, chemical and processing properties. Listed known formulas; PP94620024

Revisions- 03/30/10 – Mixing Ratio was corrected to 100:1.

SANCAP
liner technology, Inc

PRODUCT DATA SHEET
HS 035 HEAT SEAL/20F
For Mold-Rite Plastics, Inc.

MRP Description - (021)HS035.020 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 laminated to polystyrene foam.

FDA Status: Complies with Federal Regulations of H.E.W., FDA, sections 175.105, 175.300, 176.170, 176.180, 177.1350, 178.3710, and 182.1. It is entered in SANCAP Liner's food master file FMF 166 and drug master file DMF 2518.

PHYSICAL AND CHEMICAL PROPERTIES

1.	**Color**	Aluminum
2.	**Thickness, mils**	
	a) Overall	22.41 - 28.33
	b) Heat Seal Coating	1.50 - 3.00
	c) Aluminum Foil	0.31 - 0.38
	d) Paper	2.60 - 3.00
	e) Foam	18.00 - 22.00
3.	**Basis Wt. Lbs./Ream 3000 ft.^{2}**	
	a) Overall	134.3 - 176.9
	b) Heat Seal Coating	20.7 - 41.9
	c) Aluminum Foil	13.3 - 16.2
	d) Paper	33.3 - 36.8
	e) Foam	67.0 - 82.0
4.	**Heat Seal Coating**	
	a) Melting Point °F	150 - 160
	b) Blocking Point °F	130 - 135
5.	**Gas Transmission: cc/cin^2/24hrs/1atm**	
	a) Oxygen	nil
6.	**Water Vapor Transmission**	
	a) gm/cin^2/24hrs/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. Metal foil is prone to corrosion.

SHELF LIFE

Liner material should be used (adhered to bottle) within 8 months of date of manufacture of the lining material. This shelf life is only valid if the lining material is stored according to recommendations above.

SUGGESTED PRODUCT USES

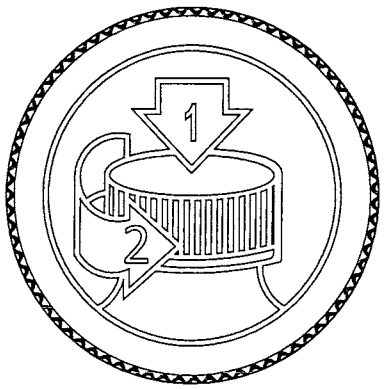
Material is a heat sealable tamper indicating innerseal which can be used for over-the-counter drug products on Polyethylene, Glass, PET, PVC, Polystyrene, and Polypropylene.

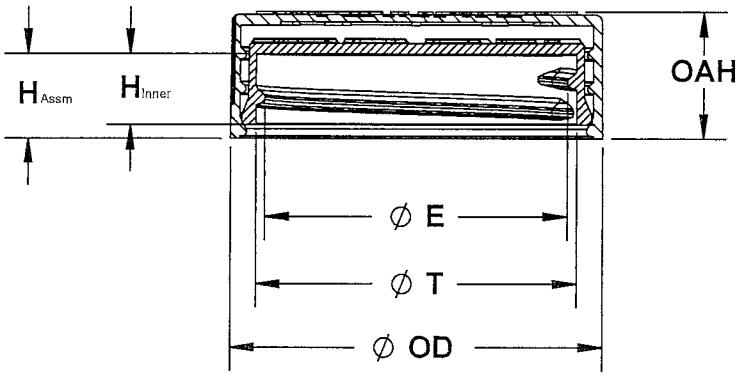
Dry Products	Fruit Juices
Milk	Glass Cleaner
Peroxide	Spices

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 their specific product. Not suitable for products containing oil.

SLT_TDS_HS035/20FMRP_Rev.0
21 Oct. 2009

16125 Armour St. N.E. Alliance, Ohio 44601 330-821-1166 Fax: 330-821-0364 Toll Free: 800-966-7262





SECTION X-X
SCALE 1 : 1

6 THREADS PER INCH, .167 PITCH,
380° FULL DEPTH THREAD

	TOLERANCE	UNITS	
E	±0.010 [0.25]	in [mm]	1.658 [42.11]
T	±0.010 [0.25]	in [mm]	1.752 [44.25]
$H_{(Assm)}$	MINIMUM	in [mm]	0.458 (12.00)
$H_{(Inner)}$	±0.010 [0.25]	in [mm]	0.385 [9.78]
OD	±0.012 [0.30]	in [mm]	2.044 [51.91]
OAH	±0.020 [0.51]	in [mm]	0.698 [17.73]
Part Weight	±1.5	g	9.60

STATIC TORQUE RECOMMENDATION

18 - 29 in-lbs

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

SUPPERSEDES DRAWING:

C-8020-0

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.

MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES RESERVES THE RIGHT TO REVISE ANY OR ALL SPECIFICATIONS AND REQUIREMENTS.

DRAWING TYPE : **CUSTOMER**

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

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	±0.020	101-150	±0.508
5.097-7.874	±0.024	151-200	±0.610
7.875-9.843	±0.032	201-250	±0.813

ANGULAR TOLERANCE ± 2°

THIRD ANGLE PROJECTION		DISTRIBUTION CODE	D
DRAWN BY:	BDG	09/04/15	
QA APPR:			
CUSTOMER APPR:			

DRAWING NAME: 45mm-400 PDT CRC PICTO LOGO

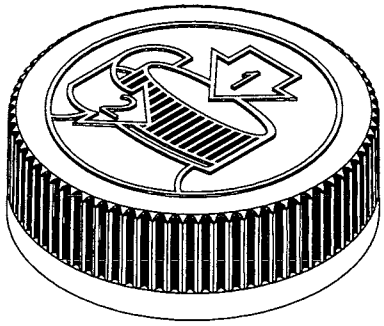
DRAWING NUMBER: CQA-10151

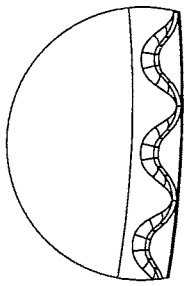
MATERIAL: POLYPROPYLENE

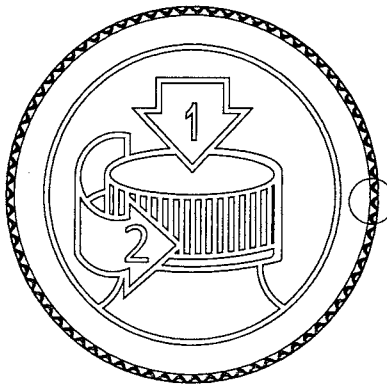
MODEL NUMBER: 45mm PDT CRC Assembly Master Model

SCALE	SHEET SIZE	SHEET	REV	N/P
1:1	8½ x 11	1 of 3	01	AB

REVISION HISTORY				
REV	N/P	DATE	REVISION	DE
01	AA	09/04/15	DRAWING RELEASED	B.G.
01	AB	09/18/15	CORRECTED LEADER LOCATIONS FOR T AND E	B.G.







DETAIL RIB
SCALE 6 : 1
(75) EQUISPACED RIBS

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

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

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	±0.020	101-150	±0.508
5.097-7.874	±0.024	151-200	±0.610
7.875-9.843	±0.032	201-250	±0.813

ANGULAR TOLERANCE ± 2°

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EXPANDED PRODUCT OFFERINGS · MULTIPLE MANUFACTURING LOCATIONS
INDUSTRY LEADING INNOVATION · UNMATCHED CUSTOMER SERVICE

THIRD ANGLE PROJECTION

SOLIDWORKS

DISTRIBUTION CODE: D

DRAWING NAME: 45mm-400 PDT CRC PICTO LOGO

DRAWING NUMBER: CQA-10151

DRAWN BY: REFER TO PAGE 1

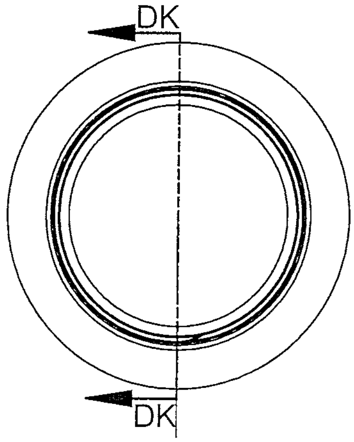
QA APPR: REFER TO PAGE 1

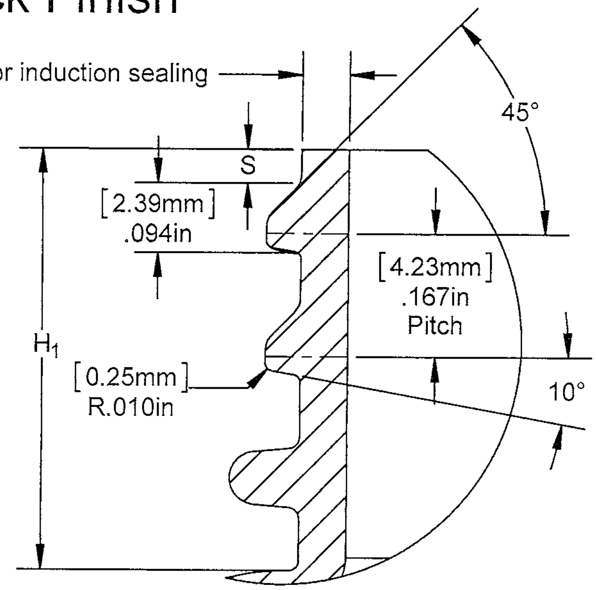
CUSTOMER APPR: REFER TO PAGE 1

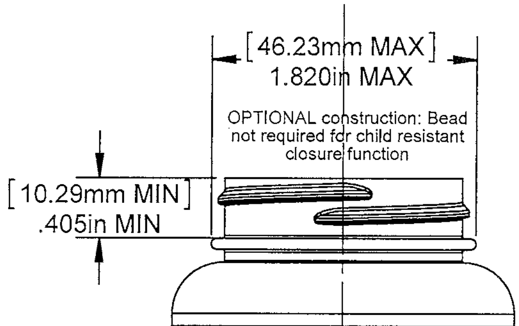
MATERIAL: POLYPROPYLENE

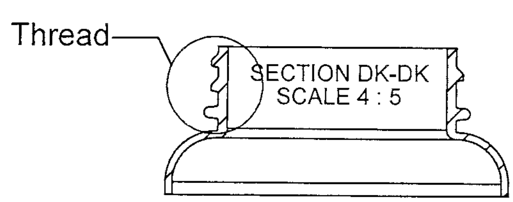
SCALE	SHEET SIZE	SHEET	REV	N/P
1:1	8½ x 11	2 of 3	01	AB

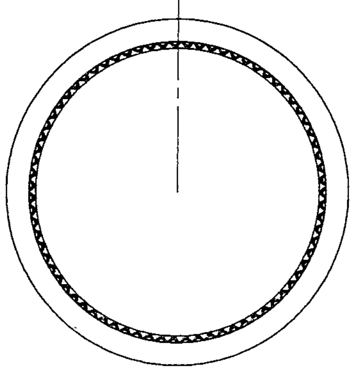
Recommended Neck Finish











	TOLERANCE	UNITS	
E	±0.017 [0.43]	in [mm]	1.631 [41.43]
T	±0.017 [0.43]	in [mm]	1.725 [43.81]
I	Minimum	in [mm]	1.500 [38.13]
S	±0.015 [0.38]	in [mm]	0.046 [1.17]
H1	±0.015 [0.38]	in [mm]	0.570 [14.22]
TPI			6
PITCH		in [mm]	0.167 [4.24]

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PROPRIETARY AND CONFIDENTIAL

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Expanded product offerings · Multiple manufacturing locations
Industry leading innovation · Unmatched customer service

THIRD ANGLE PROJECTION (SOLIDWORKS)	DISTRIBUTION CODE: D	DRAWING NAME: 45mm CRC NECK FINISH	
DRAWN BY: REFER TO PAGE 1		DRAWING NUMBER: CQA-10151	
QA APPR: REFER TO PAGE 1		MATERIAL	
CUSTOMER APPR: REFER TO PAGE 1			

SCALE	SHEET SIZE	SHEET	REV	N/P
1:1	8½ x 11	3 of 3	01	AB