

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>	<u> </u>
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	
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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.



SEAL PRODUCT DATA SHEET



HS 035 HEAT SEAL/20F

MRP Description - (021)HS035.020 R SFYP

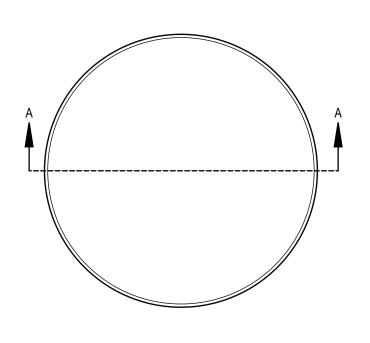
- Designed as a one-piece, polystyrene backed, induction heat seal with an ethylene vinyl acetate based sealant layer that gives a tamper evident bond to Polyethylene (PE), Polypropylene (PP). Polyester (PET), Polystyrene (PS), Vinyl (PVC) and glass containers.
- Available with standard or custom print.

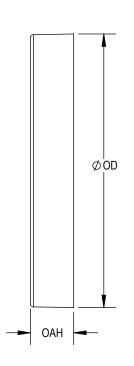
Typical Product Attributes

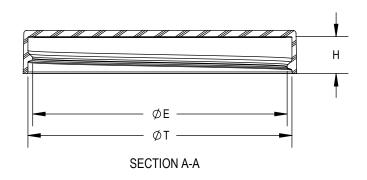
Construction					
		SI (μm)	US (Mils)		
Polystyrene Foam Paper Aluminum Foil Heat Seal		508,0 71,1 8,9 63,5	20.0 2.8 0.35 2.25		
Minimum Width Width Tolerance		25,4 mm ± 1,6 mm	1.0 inch ± 1/16		
Properties					
Water Vapor Transmission (WVTR)	Essentially Zero				
Gas (O ₂) (GTR)	Essenti	ally Zero			
Regulatory Compliance					
FDA Compliance	21 CFR 177.1640 Polystyrene and rubber-modi	fied polystyrene.			
	21 CFR 177.1350 Ethylene-vinyl acetate copolymers.				
	21 CFR 177.1210 Closures with sealing gaskets for food containers				
	21 CFR 176.180 Components of paper and paperboard in contact with dry foods.				
	21 CFR 176.170 Components of paper and paperboard in contact with aqueous 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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THREAD DETAIL: 6 THREADS PER INCH, 0.167" PITCH REFERENCE **TOLERANCE UNITS DIMENSION** ±0.015 [0.38] 2.650 [67.31] Ε in [mm] Τ ±0.020 [0.51] 2.750 [69.85] in [mm] Н ±0.015 [0.38] in [mm] 0.392 [9.96] OAH ±0.020 [0.51] in [mm] 0.450 [11.43] OD ±0.025 [0.64] 2.850 [72.39] in [mm] PART WEIGHT ± 1.5 7.8 g

STATIC TORQUE RECOMMENDATION

28-50 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: DIMENSIONS ENCLOSED IN () INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED C-1015-S TOLERANCES UNLESS OTHERWISE

TOLEIVANGES ONLESS OTTERWISE SECONED					
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		

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ANGULAR TOLERANCE ± 2°





DISTRIBUTION DRAWING NAME CODE

1:1

70-400 CT CLOSURE S (Smooth Side Smooth Top)

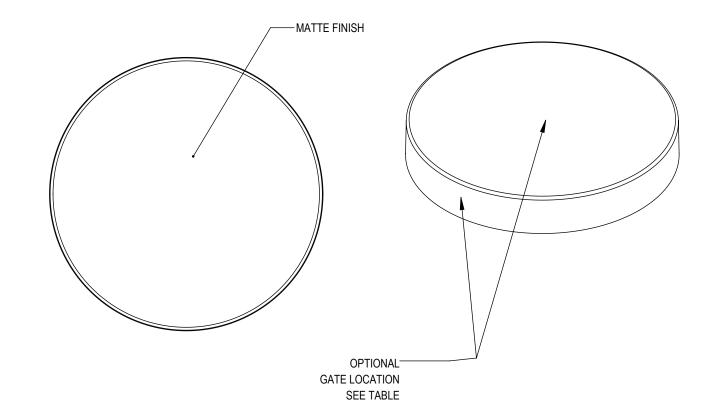
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1 of 3

DRAWING NUMBER CQA - 10748

MATERIAL **POLYPROPYLENE** 6/3/2016 DRAWN BY. MODEL NUMBER 4/6/2018 ENG APPR. PM 11104 70-400 CT SHEET SIZE REV NE SCALE SHFFT 08/13/2018 QA APPR. REL 8.5" X 11

3			4		5	6	7		8	
		REVISIONS								
	DA	ATE	REV.	N/P	PRODUCT DRAWING REQUEST	DESC	CRIPTION		ENG	DRW
	12/02	2/2013	01	AA		REDRAWN O	N NEW FORMATS		JR	JR
	01/19	9/2018	01	AB	PDR 18-067	PART NUMBE SPECIFCATIONS PRODUCTION CA	T AND ASSIGNED N ER. DIMENSIONAL UPDATED BASED (APABILITY. NO STEI S OCCURED.	ON	BDG	DAS



GATE LOCATION MOLD NUMBER SIDE TOP 70003 Χ 70007 Χ 70008 Χ

THE CLOSURE DIMENSIONS
DEPICTED ARE THOSE WHICH HAVE GENERALLY BEEN
FOUND TO BE FUNCTIONAL BASED ON INDUSTRY
EXPERIENCE BECAUSE OF VARIABILITY IN GLASS AND
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SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND
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DRAWING TYP	DRAWING TYPE: CUSTOMER				
REFERENCES: 70003 70007 70008		INDICATE F DIMENSIONS AND	NCLOSED IN () REFERENCE D NO TOLERANCE ESTABLISHED		
TOLERANCES UNLESS OTHERWISE SPECIFIED]	
DIMENSION (inches)	TOLERANCE	DIMENSION (mm)	TOLERANCE	1	
0-0.787	±0.006	0-20	±0.152	1	
0.788-1.181	±0.008	21-30	±0.203	1	
1.182-2.756	±0.012	31-70	±0.305	\vdash	
2.757-3.937	±0.016	71-100	±0.406	1	
3.938-5.096	±0.020	101-150	+0.508	14	

151-200

201-250

DISTRIBUTION DRAWING NAME CODE THIRD ANGLE PROJECTION

Innovative • Reliable • Responsive

)		S (S	mooth Side Smooth Top)
'	DRAWING	NUMBER	CQA - 10748

0748 MATERIAL **POLYPROPYLENE** DRAWN BY. 6/3/2016

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ANGULAR TOLERANCE ± 2°

±0.024

±0.032

5.097-7.874

7.875-9.843

±0.508

±0.610

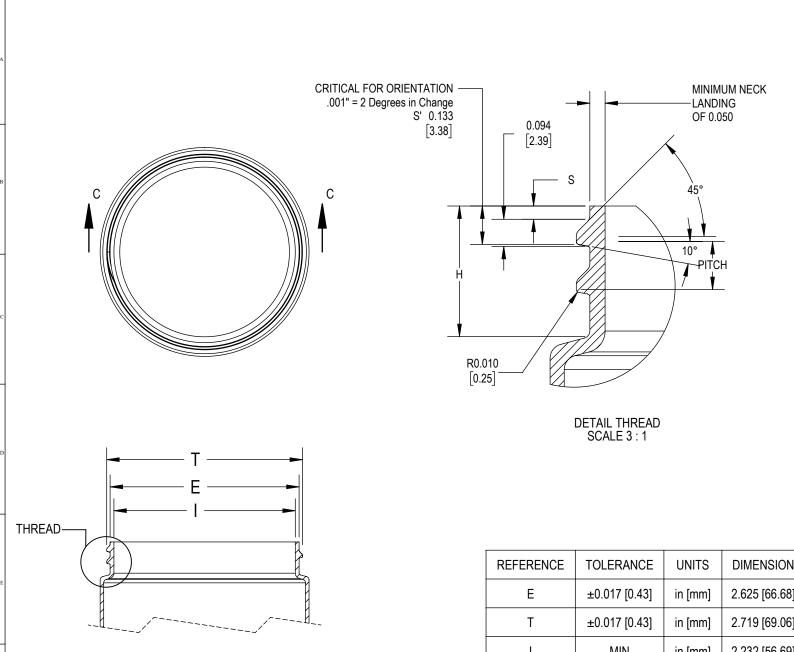
±0.813

4/6/2018 ENG APPR.

MODEL NUMBER: PM 11104 70-400 CT

70-400 CT CLOSURE

SCALE SHEET SIZE SHEET REV NP QA APPR. REL 08/13/2018 00.AA 8 .5 X 11 2 of 3



SECTION C-C	

DRAWING TYPE : NOTE: THE NOMINAL ORIENTATION ILLUSTRATED IS BASED ON NOMINAL DIMENSIONS OF BOTH THE CLOSURE AND THE RECOMMENDED NECK FINISH. FOR EXACT ORIENTATION EACH BOTTLE SHOULD BE EVALUATED ON A CASE BY CASE BASIS.

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CUSTOMER

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

TOLERANCES UNLESS OTHERWISE SPECIFIED				1
DIMENSION (inches)	TOLERANCE	DIMENSION (mm)	TOLERANCE	1
0-0.787	±0.006	0-20	±0.152	1
0.788-1.181	±0.008	21-30	±0.203	1
1.182-2.756	±0.012	31-70	±0.305	H
2.757-3.937	±0.016	71-100	±0.406	1
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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	REFERENCE	TOLERANCE	UNITS	DIMENSION
	Е	±0.017 [0.43]	in [mm]	2.625 [66.68]
	Т	±0.017 [0.43]	in [mm]	2.719 [69.06]
	I	MIN	in [mm]	2.232 [56.69]
I	S	±0.015 [0.38]	in [mm]	0.046 [1.17]
	Н	MIN	in [mm]	0.408 [10.36]
	TPI			6
	PITCH		in [mm]	0.167 [4.24]





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70-400 CT CLOSURE RECOMMENDED NECK FINISH

DRAWING NUMBER CQA - 10748

1							
	DRAWN BY.	JR	6/3/2016	MATERIAL			
	ENG APPR.	BDG	4/6/2018	MODEL NUMBER	R:		
	QA APPR.	OA ADDD REL 08/13/2	08/13/2018	SCALE	SHEET SIZE	SHEET	REV.N/P
ı		QA APPR.	3.4	8 5 X 11	3 of 3	ΛΛ ΔΔ	