



# 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

Information contained herein is considered accurate to our best knowledge. It is offered for your consideration and investigation, and is not to be construed as a representation or warranty, expressed or implied, for which Braskem assumes legal responsibility. Our warranties are limited to those expressly stated in formal contracts or in conditions of sale on our invoices and order acceptances. Conditions and methods of use vary and are beyond the control of Braskem. Braskem, therefore, disclaims any liability incurred as a result of the use of its products in accordance with the data contained herein. No information herein shall be construed as an offer of indemnity for infringement or as a recommendation to use these products in such a manner as to infringe any patent, domestic or foreign.

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](http://www.braskem.com)

	<b>Raw Material Product Data Sheet</b>	
	<b>Product Name:</b> MRPWH01	<b>Revision #:</b> A
	<b>Revision Date</b>	<b>03/07/2019</b>
	<b>Effective Date</b>	<b>07/01/2019</b>

**Product Name:**

MRPWH01

**Product Description:**

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

**Product Data:**

Additives

None

<u>Typical Properties</u>	<u>Typical Value</u>
Delta E Tolerance	Less than 2.00
Visual Evaluation	Visual match to approved color standard

<u>FDA Compliance/Status</u>		
FDA, Title 21 CFR Food & Drug Contact	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> 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.

<u>Additional Compliance/Status (and amendments as of the date of this document)</u>		
Proposition 65, Safe Drinking Water and Toxic Enforcement Act	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Not
CONEG, Model Toxics in Packaging Legislation	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Not
EU 2015/863, as regards the list of restricted substances, RoHS	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> 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.*

## 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.

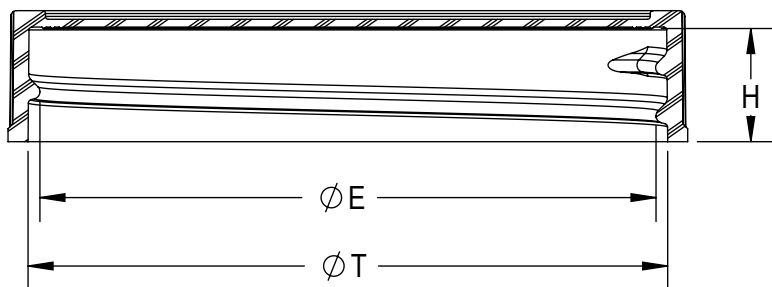
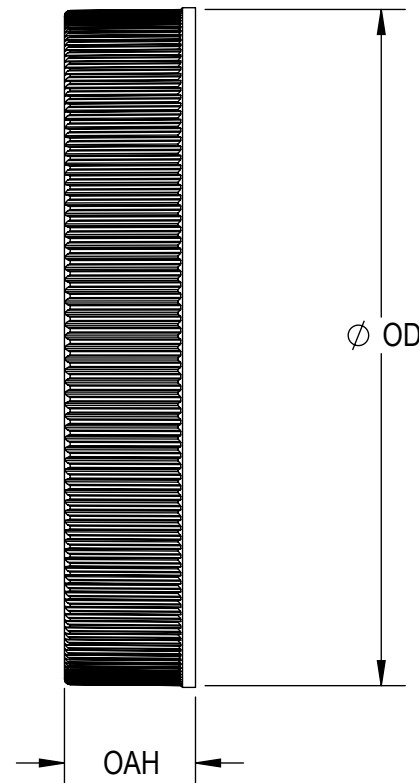
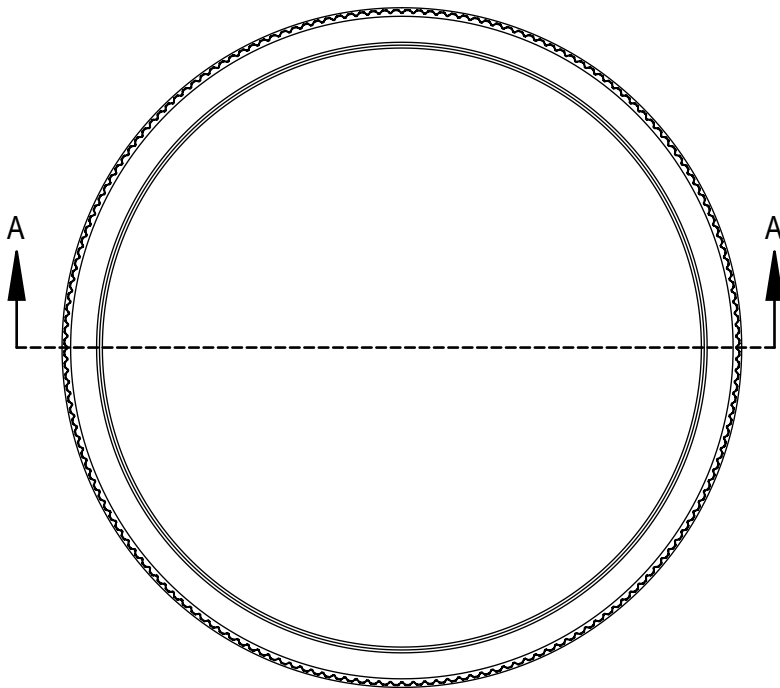
### Typical Product Attributes

Construction			
Polystyrene Foam Paper Aluminum Foil Heat Seal		SI (µm)	US (Mils)
		508,0	20.0
		71,1	2.8
		8,9	0.35
		63,5	2.25
Minimum Width		25,4 mm	1.0 inch
Width Tolerance		± 1,6 mm	± 1/16
Properties			
Water Vapor Transmission (WVTR)	Essentially Zero		
Gas (O <sub>2</sub> ) (GTR)	Essentially Zero		
Regulatory Compliance			
FDA Compliance	21 CFR 177.1640 Polystyrene and rubber-modified 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 Proposition 65 Labeling Requirements; Limitations of Heavy Metals in Packaging per CONEG & EU 94/62/EC, Article 11		

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

DISCLAIMER: This information is believed to be accurate at the time of printing and is subject to change without notice. Providing this information does not convey any licenses under any patent rights or intellectual property rights of Tri-Seal or others. TRI-SEAL MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM RELIANCE ON IT. Tri-Seal's only warranties for this product are those written warranties as may be agreed to by Tri-Seal and its customers. TRI-SEAL SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.

Tri-Seal  
 a Tekni-Plex company  
 16125 Armour St. N.E.  
 Alliance, OH 44601  
 Tel: 330-821-1166 – Fax: 330-821-0364  
[www.tri-seal.tekni-plex.com](http://www.tri-seal.tekni-plex.com)



SECTION A-A

THREAD DETAIL:  
6 THREADS PER INCH, 0.167" PITCH

REFERENCE	TOLERANCE	UNITS	DIMENSION
E	±0.015 [0.38]	in [mm]	2.138 [54.30]
T	±0.015 [0.38]	in [mm]	2.235 [56.77]
H	±0.010 [0.25]	in [mm]	0.400 [10.16]
OAH	±0.012 [0.30]	in [mm]	0.489 [12.42]
OD	±0.015 [0.38]	in [mm]	2.353 [59.76]
PART WEIGHT	± 1.50	g	6.00

STATIC TORQUE RECOMMENDATION  
23-40in-lbs  
THIS REQUIREMENT MAY VARY DEPENDING  
UPON BOTTLE MATERIAL, NECK FINISH, AND  
CAPPING EQUIPMENT

DRAWING TYPE : CUSTOMER

REPLACES DRAWINGS:  
C-4013

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

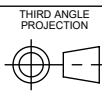
TOLERANCES UNLESS OTHERWISE SPECIFIED

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°

PROPRIETARY AND CONFIDENTIAL

THIS DRAWING IS PROTECTED BY COPYRIGHT AND CONTAINS INFORMATION  
PROPRIETARY TO MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES.  
ANY REPRODUCTION, DISCLOSURE, OR USE OF ITS CONTENTS OR ANY PART  
THEREOF IS EXPRESSLY PROHIBITED EXCEPT AS MOLD-RITE, WEATHERCHEM  
AND STULL TECHNOLOGIES OTHERWISE MAY AGREE IN WRITING



DISTRIBUTION  
CODE

D

DRAWING NAME  
58-400 CT CLOSURE  
RM (Ribbed Side, Matte Top)

DRAWING NUMBER  
CQA - 10726

MATERIAL  
POLYPROPYLENE

MODEL NUMBER:  
PM 10988 58-400 CT

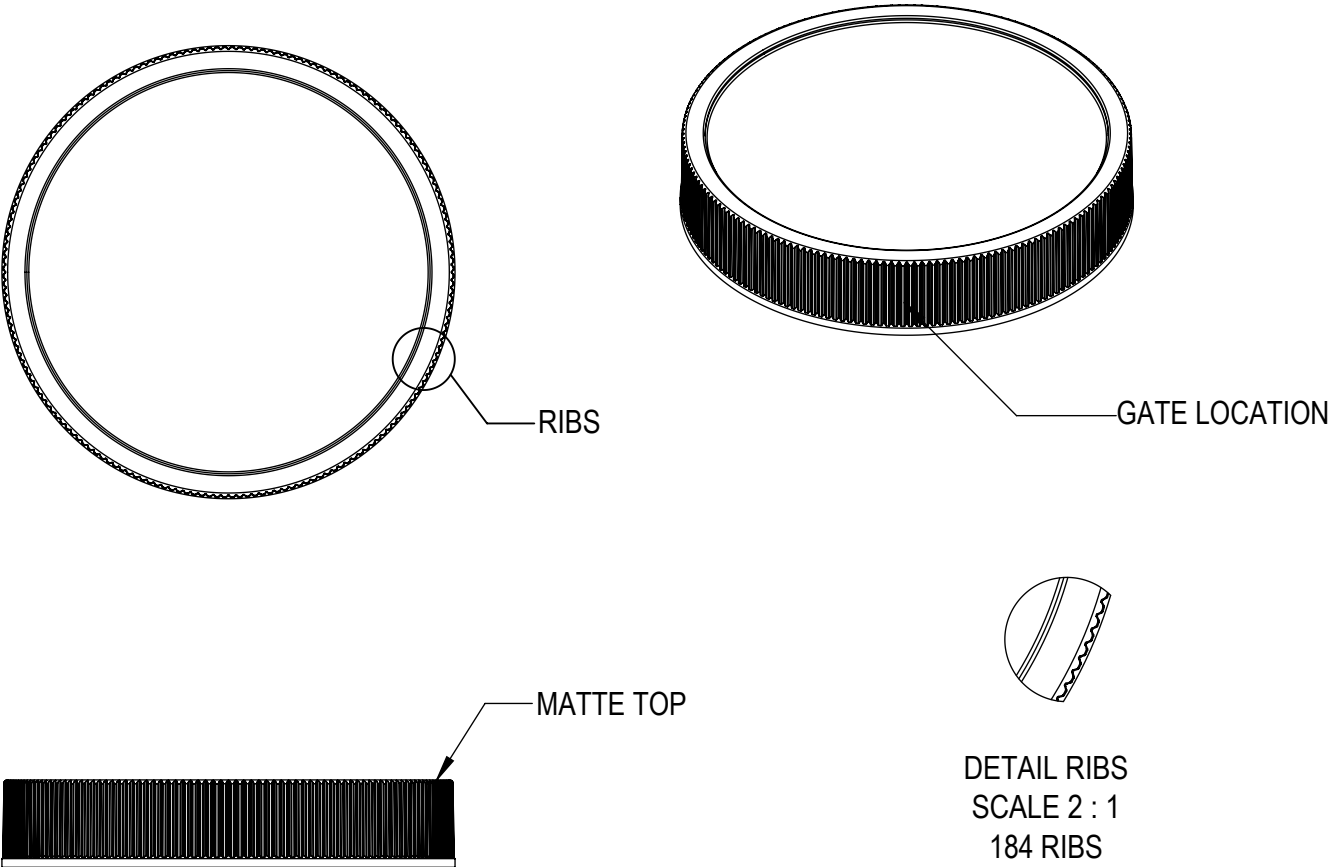
SCALE	SHEET SIZE	SHEET	REV.NP
1:1	8.5" X 11"	1 of 3	00.AA

DRAWN BY.	DAS	4/12/2018
ENG APPR.	AMK	12/14/2018
QA APPR.	REL	01/16/2019



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.

REVISIONS					
DATE	REV.	N/P	PRODUCT DRAWING REQUEST	DESCRIPTION	ENG DRW
05/11/2018	00	AA	PDR 17-041	DRAWING UPDATED TO REFLECT HISTORICAL RUN DATA & PROCESS CAPABILITY. NO CHANGES TO THE STEEL OR PART HAVE OCCURRED	BDG DAS



MOLD NUMBER	GATE LOCATION
58007	SIDE

<p>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.</p> <p>MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES RESERVES THE RIGHT TO REVISE ANY OR ALL SPECIFICATIONS AND REQUIREMENTS.</p>	DRAWING TYPE : CUSTOMER				<div><p><b>MOLD-RITE PLASTICS®</b></p><p>Innovative • Reliable • Responsive</p></div>					
	REFERENCES: 58003, 58007		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	 <p>THIRD ANGLE PROJECTION</p> <p><i>SOLIDWORKS</i></p>	DISTRIBUTION CODE  <b>D</b>	DRAWING NAME  <b>58-400 CT CLOSURE RM (Ribbed Side, Matte Top)</b>			
	0.788-1.181	±0.008	21-30	±0.203			DRAWING NUMBER  <b>CQA - 10726</b>			
	1.182-2.756	±0.012	31-70	±0.305			MATERIAL  <b>POLYPROPYLENE</b>			
	2.757-3.937	±0.016	71-100	±0.406			MODEL NUMBER:  <b>PM 10988 58-400 CT</b>			
	3.938-5.096	±0.020	101-150	±0.508			SCALE	SHEET SIZE	SHEET	REV.NP
	5.097-7.874	±0.024	151-200	±0.610			1:1	8.5 X 11	2 of 3	00.AA
	7.875-9.843	±0.032	201-250	±0.813	ENG APPR.	AMK	12/14/2018			
	ANGULAR TOLERANCE ± 2°				QA APPR.	REL	01/16/2019			
PROPRIETARY AND CONFIDENTIAL										
THIS DRAWING IS PROTECTED BY COPYRIGHT AND CONTAINS INFORMATION PROPRIETARY TO MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES. ANY REPRODUCTION, DISCLOSURE, OR USE OF ITS CONTENTS OR ANY PART THEREOF IS EXPRESSLY PROHIBITED EXCEPT AS MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES OTHERWISE MAY AGREE IN WRITING										

CRITICAL FOR ORIENTATION

.001" = 2 Degrees in Change

S' 0.133 [3.38]

0.094 [2.39]

S

MINIMUM BOTTLE  
LANDING  
OF 0.050

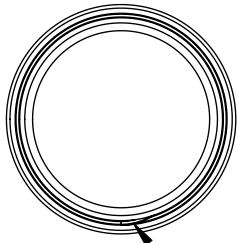
45.0°

10.0°

PITCH

H

R0.010 [0.25]



THREAD START

DETAIL THREAD

SCALE 4 : 1

D

THREAD

Ø T

Ø E

Ø I

D

SECTION D-D

REFERENCE	TOLERANCE	UNITS	DIMENSIONS
E	±0.017 [0.43]	in [mm]	2.113[53.67]
T	±0.017 [0.43]	in [mm]	2.207[56.07]
I	MINIMUM	in [mm]	1.974 [50.14]
S	±0.015 [0.38]	in [mm]	0.046[1.17]
H	±0.015 [0.38]	in [mm]	0.408[10.36]
TPI			6
PITCH		in	0.167

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.

DRAWING TYPE : CUSTOMER

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

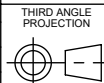
TOLERANCES UNLESS OTHERWISE SPECIFIED

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°

PROPRIETARY AND CONFIDENTIAL

THIS DRAWING IS PROTECTED BY COPYRIGHT AND CONTAINS INFORMATION PROPRIETARY TO MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES. ANY REPRODUCTION, DISCLOSURE, OR USE OF ITS CONTENTS OR ANY PART THEREOF IS EXPRESSLY PROHIBITED EXCEPT AS MOLD-RITE, WEATHERCHEM AND STULL TECHNOLOGIES OTHERWISE MAY AGREE IN WRITING



SOLIDWORKS

DISTRIBUTION  
CODE

D

DRAWING NAME

58-400 CT CLOSURE  
RECOMMENDED NECK FINISH

DRAWING NUMBER

CQA - 10726

DRAWN BY.

DAS

4/12/2018

MATERIAL

ENG APPR.

AMK

12/14/2018

MODEL NUMBER:

QA APPR.

REL

01/16/2019

SCALE

1:2

SHEET SIZE

8.5 X 11

SHEET

3 of 3

REV/N/P

00.AA