



1 PLANT STREET  
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 MRPCAP.COM

## Product Data Sheet

### MRP-PP30-1 Grade Polypropylene, Homopolymer Plastic Resin

#### Product Description

MRP-PP30-1 is a high flow polypropylene homopolymer resin designed for injection molding applications requiring good balance stiffness, excellent part finish, process ability, and good mold release.

#### Compliant to the Following Regulatory Standards:

FDA-21 CFR 177.1520(c)  
 EU 10/2011, EC 2002/72  
 RoHS  
 Proposition 65  
 CONEG/Heavy Metal

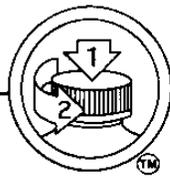
Typical Properties	Method	Typical Value	Unit
<b>Physical</b>			
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	ASTM D1238	30	g/10 min
<b>Mechanical</b>			
Tensile Strength (50mm/min) (Yield)	ASTM D 638	33.1	MPa
Tensile Elongation (50mm/min) (Yield)	ASTM D 638	10	%
Flexural Modulus – 1% Secant (1.3 mm/min)	ASTM D790A	1380	MPa
Hardness, Rockwell R	ASTM D785	104	-
<b>Impact</b>			
Notched Izod impact (23 °C, Method A)	ASTM D 256A	37	J/m
<b>Thermal</b>			
Heat Deflection (Softening Point) Unannealed DTLU @ 66psi	ASTM D 648	91	°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 warranties this grade to meet typical data values and physical, chemical, and processing properties.

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 misapplication 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 to customer option for replacement (not to exceed the purchase price) with the addition of transportation charges, on material for which damage is claimed.



## 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
<b>Physical</b>			
Density – Specific Gravity	ASTM D 792	.900 - .905	sp gr. 23/23° C
Melt Flow Rate	ASTM D 1238	35.0	g/10 min
<b>Mechanical</b>			
Tensile 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
<b>Impact</b>			
Notched Izod impact (23 °C, Method A)	ASTM D 256	1.4 – 2.4 75 – 128	Ft-lb/in J/m
<b>Thermal</b>			
Heat Deflection (Softening Point) Unannealed DTLU @ 66psi	ASTM D 648	212 – 225 88 – 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

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	<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

**FDA Compliance/Status**

FDA, Title 21 CFR Food & Drug Contact	<input checked="" type="checkbox"/> Compliant	<input type="checkbox"/> Not
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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	<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.*



# Liner Product Data Sheet

**Title:** (A01)MRPLN04.020 FOAM R SFYP

**Description of Product:** Universal Heat Seal Foam Liner

**Detailed Product Description:** This product is a one piece universal heat seal consisting of foam backing, paper, aluminum foil and heat seal layer.



**Regulatory Compliance:**

21 CFR 177.1210 Closures with sealing gaskets for food containers.

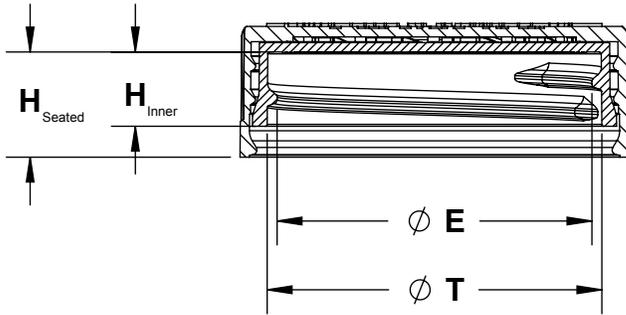
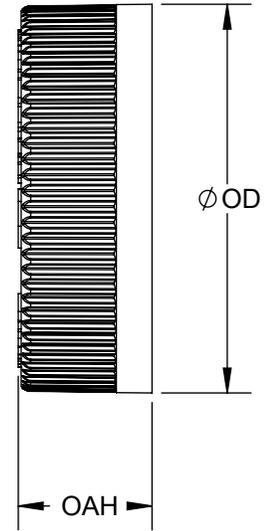
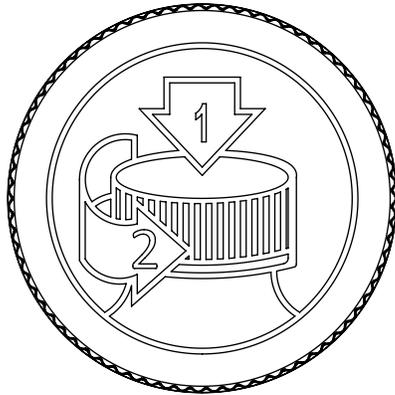
**Typical Properties:** This specification, designated by Mold-Rite Plastics, includes all liners that meet the typical value data listed below:

Typical Properties	Typical Value
Overall Thickness <ul style="list-style-type: none"> <li>• Polystyrene Foam</li> <li>• Paper</li> <li>• Aluminum Foil</li> <li>• Heat Seal Coating</li> </ul>	0.024 inch +/- 10% <ul style="list-style-type: none"> <li>• .0200 inch</li> <li>• .0025 inch</li> <li>• .0003 inch</li> <li>• .0015 inch</li> </ul>
Drug Master File	16574
Printed	"SEALED FOR YOUR PROTECTION"
Print Color	Red
Oxygen Transmission	Essentially Zero
Water Vapor Transmission	Essentially Zero

**Disclaimers:**

1. These are typical properties.
2. All data values and regulatory requirements were obtained from manufacturer product data sheets (where applicable).
3. Product data sheets data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere.
4. Use of Mold-Rite Plastics products must be guided by users' methods for selection of proper formulation.
5. Mold-Rite Plastics disclaims any responsibility for misuse or misapplication of its products.
6. 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.

Rev. 071818



SECTION X-X  
SCALE 1 : 1

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

REFERENCE	TOLERANCE	DIMENSION	UNITS
E	±0.010 [0.25]	1.658 [42.11]	in [mm]
T	±0.010 [0.25]	1.752 [44.50]	in [mm]
H [Seated]	REFERENCE	0.548 [13.92]	in [mm]
H [INNER]	±0.010 [0.25]	0.385 [9.78]	in [mm]
OD	±0.012 [0.30]	2.044 [51.92]	in [mm]
OAH	±0.020 [0.25]	0.698 [17.73]	in [mm]
PART WEIGHT	± 1.5	9.60	g

STATIC TORQUE RECOMMENDATION  
17-27 in-lbs  
THIS REQUIREMENT MAY VARY DEPENDING  
UPON BOTTLE MATERIAL, NECK FINISH, AND  
CAPPING EQUIPMENT

DRAWING TYPE : CUSTOMER

REPLACES DRAWINGS:

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

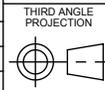
TOLERANCES UNLESS OTHERWISE SPECIFIED

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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DISTRIBUTION  
CODE

D

DRAWING NAME

45-400 CRC Assm  
PICTO

DRAWING NUMBER

CQA - 10151

MATERIAL

POLYPROPYLENE

MODEL NUMBER:

PM 10137 45-400 PDT CRC Assembly

DRAWN BY: BDG

9/4/2015

ENG APPR: BDG

11/21/2019

QA APPR: REL

12/17/2019

SCALE

1:2

SHEET SIZE

8.5" X 11"

SHEET

1 of 3

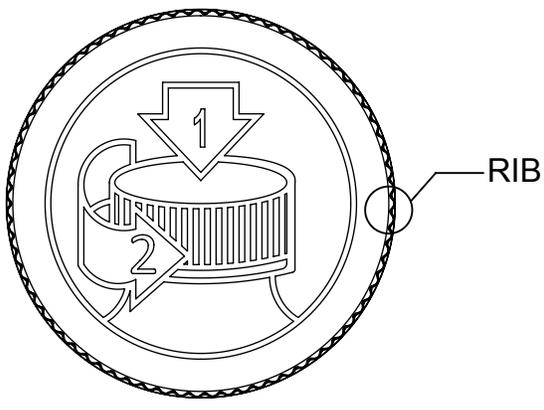
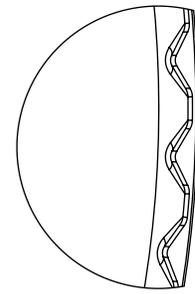
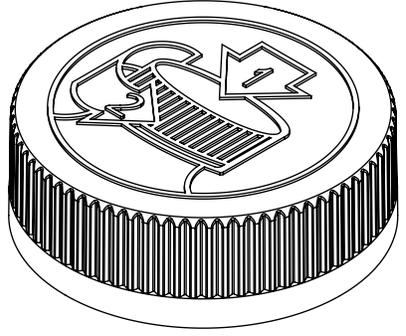
REV.NP

01.AD

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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REVISIONS						
DATE	REV	N/P	PDR	DESCRIPTION	ENG	DRW
09/04/2015	01	AA	-	Drawing Released	BDG	-
09/18/2015	01	AB		Corrected Leader Locations for T and E	BDG	-
06/17/2016	01	AC		Page 3. Changed H1 to Minimum	BDG	-
11/21/2019	01	AD		Updated drawing template and corrected metric conversions	BDG	BDG



DETAIL RIB  
SCALE 6 : 1  
(75) EQUISPACED RIBS

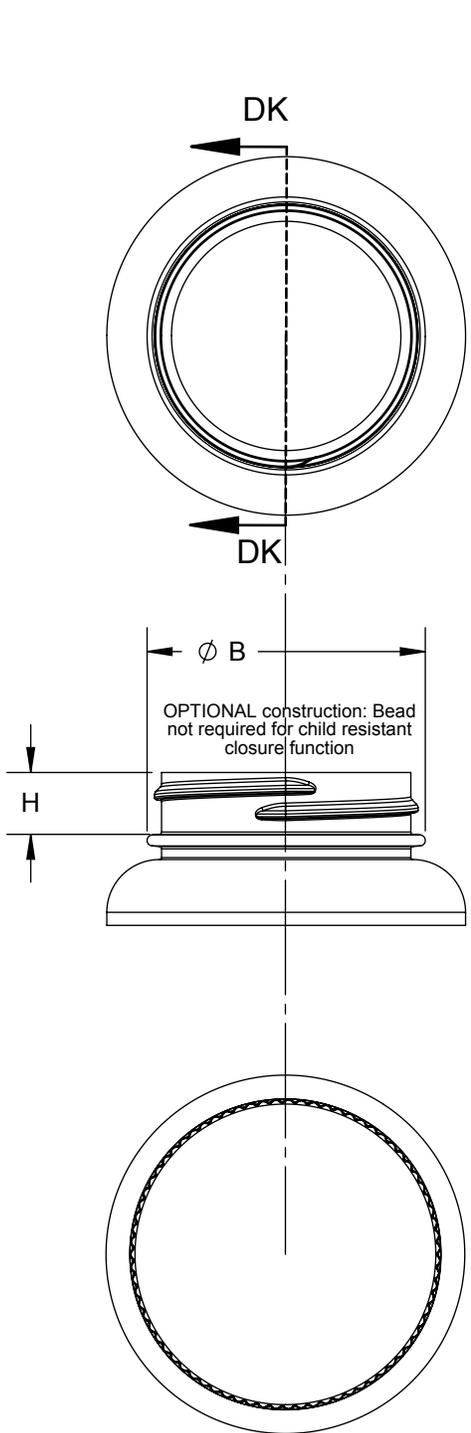
THE CLOSURE DIMENSIONS DEPICTED ARE THOSE WHICH HAVE GENERALLY BEEN FOUND TO BE FUNCTIONAL BASED ON INDUSTRY EXPERIENCE BECAUSE OF VARIABILITY IN GLASS AND PLASTIC CONTAINER FINISHES. EACH CLOSURE/FINISH SYSTEM SHOULD BE INDIVIDUALLY EVALUATED AND TESTED TO ENSURE IT MEETS APPLICABLE PERFORMANCE CRITERIA.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

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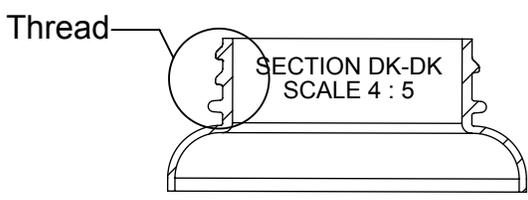
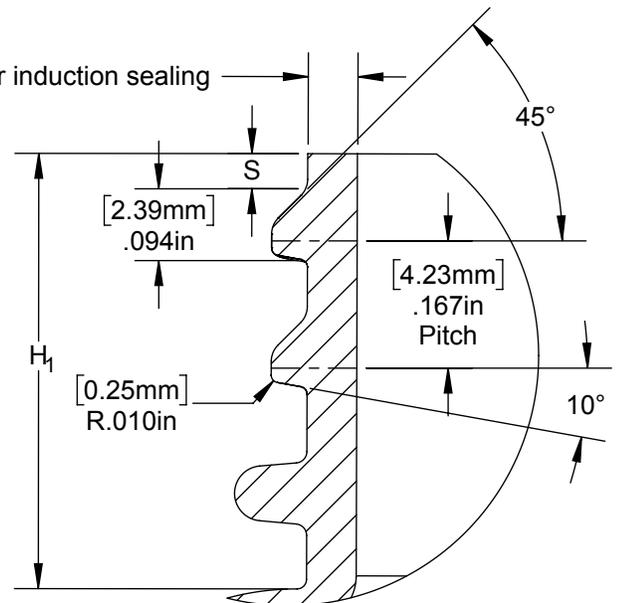
DRAWING TYPE : CUSTOMER			
REFERENCES:		DIMENSIONS ENCLOSED IN ( ) INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED	
TOLERANCES UNLESS OTHERWISE SPECIFIED			
DIMENSION (inches)	TOLERANCE	DIMENSION (mm)	TOLERANCE
0-0.787	±0.006	0-20	±0.152
0.788-1.181	±0.008	21-30	±0.203
1.182-2.756	±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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THIRD ANGLE PROJECTION	DISTRIBUTION CODE	DRAWING NAME	
	D	45-400 CRC Assm PICTO	
SOLIDWORKS		DRAWING NUMBER	
		CQA - 10151	
DRAWN BY.	BDG	9/4/2015	MATERIAL
			POLYPROPYLENE
ENG APPR.	BDG	11/21/2019	MODEL NUMBER:
			PM 10137 45-400 PDT CRC Assembly
QA APPR.	REL	12/17/2019	SCALE
			1:2
			SHEET SIZE
			8.5" X 11"
			SHEET
			2 of 3
			REV.NP
			01.AD



.050 MINIMUM flat for induction sealing



DETAIL Thread  
SCALE 4 : 1

REFERENCE	TOLERANCE	UNITS	DIMENSION
E	± 0.017 [0.43]	in [mm]	1.631 [41.43]
T	± 0.017 [0.43]	in [mm]	1.725 [43.82]
I	MINIMUM	in [mm]	1.500 [38.10]
S	±0.015[0.38]	in [mm]	0.046 [1.17]
H	MINIMUM	in [mm]	0.405 [10.29]
H1	MINIMUM	in [mm]	0.570 [14.48]
B	MAXIMUM	in [mm]	1.820 [46.23]
TPI			6
PITCH		in [mm]	0.167 [4.24]

DRAWING TYPE : CUSTOMER

REFERENCES:

DIMENSIONS ENCLOSED IN ( ) INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED			
TOLERANCES UNLESS OTHERWISE SPECIFIED			
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ANGULAR TOLERANCE ± 2°

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THIRD ANGLE PROJECTION	DISTRIBUTION CODE	DRAWING NAME	
	D	45-400 CRC Assm Recommended Neck Finish	
SOLIDWORKS		DRAWING NUMBER	
		CQA - 10151	
DRAWN BY:	BDG	9/4/2015	MATERIAL
			POLYPROPYLENE
ENG APPR.	BDG	11/21/2019	MODEL NUMBER:
QA APPR.	REL	12/17/2019	PM 10137 45-400 PDT CRC Assembly
		SCALE	SHEET SIZE
		1:2	8.5" X 11"
		SHEET	REV.NP
		3 of 3	01.AD