



1 PLANT STREET  
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[MRPCAP.COM](http://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

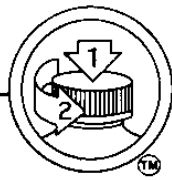
Typical Properties	Method	Typical Value	Unit
<b>Physical</b>			
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	ASTM D1238	30	g/10 min
<b>Mechanical</b>			
Tensile Strength (50mm/min) (Yield)	ASTM D 638	33.1	MPa
Tensile Elongation (50mm/min) (Yield)	ASTM D 638	10	%
Flexural Modulus – 1% Secant (1.3 mm/min)	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.*

## HS035 HEAT SEAL//25 White Lined Pulp

- Designed as a two-piece, pulp backed, induction heat seal and liner 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.

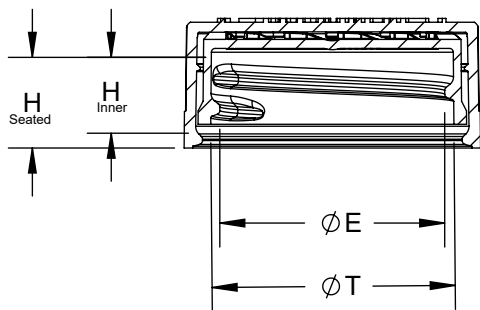
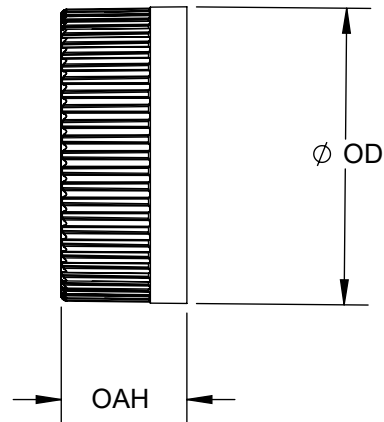
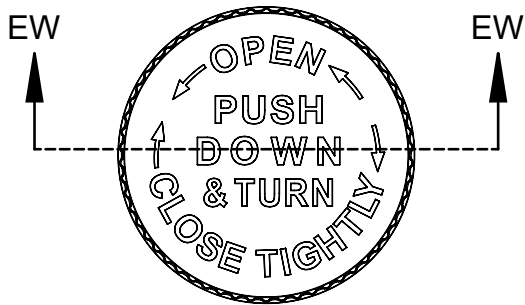
### Typical Product Attributes

Construction			
		SI (µm)	US (Mils)
Pulp		635,0	25.0
Wax		25,4	1.0
Paper		71,1	2.8
Aluminum Foil		8,9	0.35
Heat Seal		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 178.3710 Petroleum wax. 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

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SECTION EW-EW

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

REFERENCE	TOLERANCE	UNITS	DIMENSION
E	± 0.015 [0.38]	in [mm]	1.182 [30.02]
T	± 0.015 [0.38]	in [mm]	1.276 [32.41]
H (Seated)	Reference	in [mm]	0.519 [13.18]
H (Inner)	± 0.010 [0.25]	in [mm]	0.390 [9.91]
OD	± 0.020 [0.51]	in [mm]	1.545 [39.24]
OAH	± 0.016 [0.41]	in [mm]	0.667 [16.94]
PART WEIGHT	± 1.4	g	5.9

STATIC TORQUE RECOMMENDATION  
15-25 in-lbs  
THIS REQUIREMENT MAY VARY DEPENDING  
UPON BOTTLE MATERIAL, NECK FINISH, AND  
CAPPING EQUIPMENT

DRAWING TYPE : CUSTOMER

REPLACES DRAWINGS:  
C-8023

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

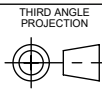
TOLERANCES UNLESS OTHERWISE SPECIFIED

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  
**33-400 CRC Assm  
PDT (Emboss)**

DRAWING NUMBER  
**CQA - 10256**

MATERIAL  
**POLYPROPYLENE**

DRAWN BY: BDG 5/13/2016

ENG APPR: BDG 7/6/2017

QA APPR: REL 9/20/2017

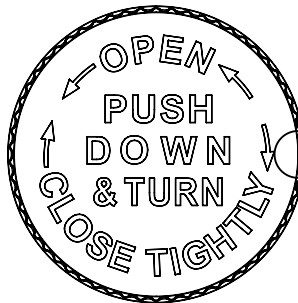
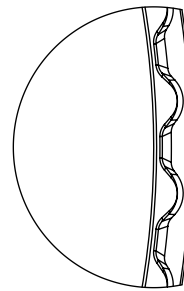
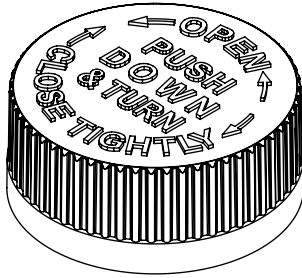
MODEL NUMBER:  
**PM 10139 33-400 CRC PDT Assembly**

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

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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DATE	REV	N/P	PRODUCT DRAWING REQUEST	DESCRIPTION	ENG	DRWN
05/13/16	00	AA		DRAWING RELEASED	BDG	BDG
07/06/17	00	AB		UPDATED DRAWING FORMAT. H (SEATED) REFERENCE UPDATED TO 0.519	BDG	BDG



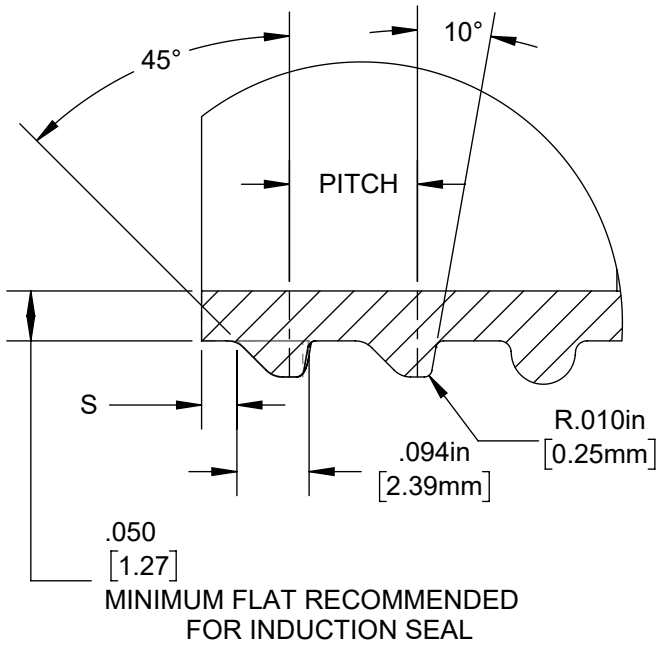
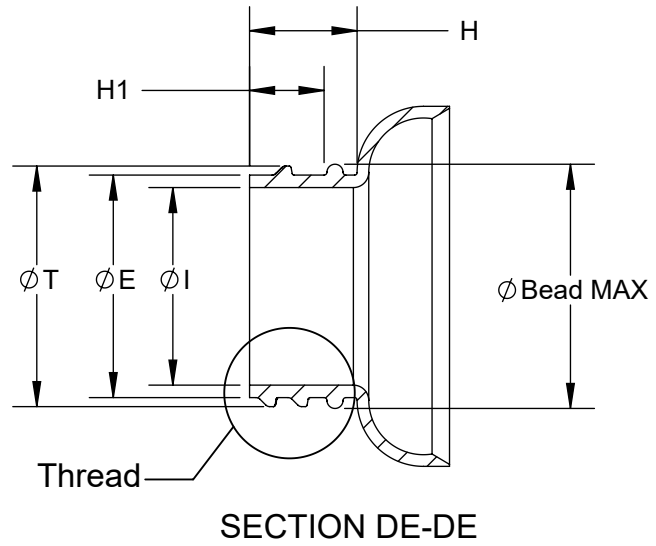
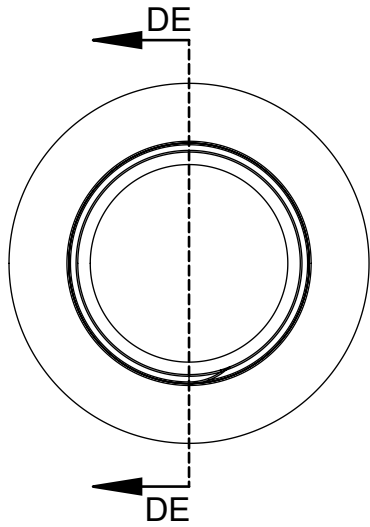
DETAIL RIB  
SCALE 6 : 1  
(58) EQUISPACED RIBS

DRAWING TYPE : CUSTOMER			
REFERENCES:		DIMENSIONS ENCLOSED IN ( ) INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED	
TOLERANCES UNLESS OTHERWISE SPECIFIED			
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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 <b>D</b>	DRAWING NAME <b>33-400 CRC Assm PDT Emboss</b>	
		DRAWING NUMBER <b>CQA - 10256</b>	
DRAWN BY: BDG	5/13/2016	MATERIAL <b>POLYPROPYLENE</b>	
ENG APPR: BDG	7/6/2017	MODEL NUMBER: <b>PM 10139 33-400 CRC PDT Assembly</b>	
QA APPR: REL	9/20/2017	SCALE 1:1	SHEET SIZE 8.5" X 11"
		SHEET 2 of 3	REV.NP 00.AB



**DETAIL Thread**  
**SCALE 4 : 1**

REFERENCE	TOLERANCE	UNITS	DIMENSIONS
E	± 0.008 [0.20]	in [mm]	1.159 [29.43]
T	± 0.008 [0.20]	in [mm]	1.253 [31.82]
I	MINIMUM	in [mm]	1.000 [25.40]
S	±0.015 [0.38]	in [mm]	0.046 [1.17]
H	MINIMUM	in [mm]	0.550 [13.97]
H1	MINIMUM	in [mm]	0.405 [10.29]
Bead	MAXIMUM	in [mm]	1.330 [33.78]
TPI		in	6
PITCH		in [mm]	0.167 [3.18]

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

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DISTRIBUTION CODE

**D**

DRAWING NAME

**33-400 CRC Assm  
RECOMMENDED NECK FINISH**

DRAWING NUMBER

**CQA - 10256**

DRAWN BY: BDG

DATE: 5/13/2016

MATERIAL

ENG APPR: BDG

DATE: 7/6/2017

MODEL NUMBER:

QA APPR: REL

DATE: 9/20/2017

SCALE

1:1

SHEET SIZE

8.5" X 11"

SHEET

3 of 3

REV/N/P

00.AB