

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	
Physical				
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	ASTM D1238	30	g/10 min	
Mechanical				
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	-	
Impact				
Notched Izod impact (23 °C, Method A)	ASTM D 256A	37	J/m	
Thermal	•			
Heat Deflection (Softening Point) Unannealed				
DTLU @ 66psi	ASTM D 648	91	ōС	
Processing Range		400 – 500	ºF	

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.



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>- 110-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-</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.



PRODUCT DATA SHEET HS 035 Lite/PET

MRP Description: (21L)HS035.008 PB/PET 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 on the foil.

FDA Status: Complies with Federal Regulations of

H.E.W., FDA, sections 175.105, 175.300, 176.170, 176.180, 177.1350, 177.1630, 178.3710, and 182.1.

PHYSICAL AND CHEMICAL PROPERTIES

1.	Co	lor	Aluminum
2.	a) b) c)	ickness, mils Overall Heat Seal and film Aluminum foil Backing and film	8.51 - 10.63 1.45 - 1.95 0.31 - 0.38 6.75 - 8.30
3.	a) b) c)	sis Wt. Lbs./Ream 3000 ft. ² Overall Heat Seal and film Aluminum foil Backing and film	128.65 - 169.55 28.50 - 42.90 13.30 - 16.20 86.85 - 110.45
4.	Hea a) b)	at Seal Coating Melting Point °F Blocking Point °F	150 - 160 130 — 135

5. Gas Transmission: cc/cin²/24hrs/1atm

a) Oxygen near zero

6. Water Vapor Transmission

a) gm/cin²/24hrs/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. Avoid storing closure liner materials over 60 days. Metal foil is prone to corrosion.

SUGGESTED PRODUCT USES

Material is an induction heat sealable tamper indicating innerseal which can be used for over-thecounter drug products on Polyethylene, Glass*, PET. PVC, Polystyrene, and Polypropylene.

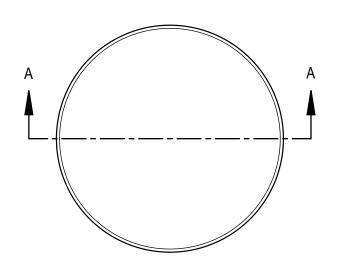
Dry Products	Glass Cleaner
Fruit Juices	Peroxide
Milk	Spices

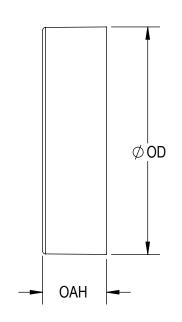
Product applications listed above are a partial listing and do not cover all suitable applications. These are suggestions for general categories and user must test for suitability for their specific product. Not suitable for products containing oil.

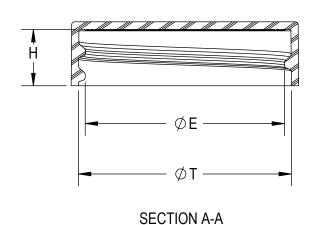
*Glass must be treated for proper adhesion.

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PRODUCT NAME: HS035 LITE/PET







THREAD DETAIL INFORMATION 6 THREADS PER INCH, 0.167 PITCH **REFERENCE TOLERANCE DIMENSION UNITS** Ε ±0.010 [0.25] 1.395 [35.43] in [mm] Т ±0.010 [0.25] 1.487 [37.77] in [mm] Η ±0.008 [0.20] 0.392 [9.96] in [mm] OAH ±0.008 [0.20] 0.443 [11.25] in [mm] OD ±0.010 [0.25] 1.576 [40.03] in [mm] PART WEIGHT ± 0.30 2.80 g

STATIC TORQUE RECOMMENDATION 17-26 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-1008

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 DRAWING NAME CODE

38-400 CT CLOSURE

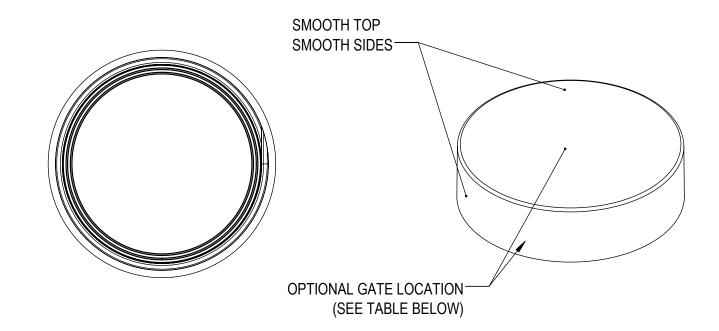
S (Smooth - Smooth)

DRAWING NUMBER CQA - 10014 MATERIAL 4/12/2017 DRAWN BY. MODEL NUMBER

POLYPROPYLENE 3/21/2018 PM 10498 38-400 CT

ENG APPR. SHEET SIZE SHFF. REV NP SCALE REL 03/22/2018 QA APPR. 00.AC 3:2 8.5in*11in 1 of 3

REVISIONS					
DATE	REV.	N/P	DESCRIPTION	ENG	DRW
2/26/2014	00	AA	INITIAL RELEASE	СМ	LB
4/12/2017	00	AB	UPDATED DRAWING FORMAT	JDM	DAS
11/21/2017	00	AC	CORRECTED NOMINAL FOR OAH AND OD	JDM	JDM



MOLD NUMBER	GATE LOCATION
38011	SIDE
38012	SIDE
38017	TOP CENTER
38024	SIDE
38025	TOP CENTER
38030	TOP CENTER

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	DRAWING TYPE: CUSTOMER								
	REFERENCES: 38011, 38012, 3 38025	8017, 38024,	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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SOLIDWORKS

DISTRIBUTION DRAWING NAME CODE

38-400 CT CLOSURE S (Smooth - Smooth)

DRAWING NUMBER COA - 10014

5			DIVINIO NOMBER	CQA - 10014
			MATERIAL	

	DRAWN BY.	DAS	4/12/2017	MATERIAL	POLYPROI	PYLENE	
. –	ENG APPR.	JDM	3/21/2018	MODEL NUMBE	R: PM 10498 3	8-400 CT	
и	OA ADDD	REL	03/22/2018	SCALE	SHEET SIZE	SHEET	REV.NP

