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Bapolene® PP5052 Polypropylene, Injection Grade

[Request additional product information or price quote](#)

Key Features:

Superior balance of stiffness and impact strength

Material Notes:

Polypropylene injection impact copolymer with excellent color and processability. This resin also has a superior balance of stiffness and impact strength. This product meets FDA standards for food contact applications.

Applications: Battery cases, housewares, appliances.

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Physical Properties	Metric	English	Comments
Density	0.903 g/cc	0.0326 lb/in ³	ASTM D1505
Melt Flow	8.00 g/10 min Load 2.16 kg, Temperature 230 °C	8.00 g/10 min Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	ASTM D-2240
Tensile Strength, Yield	26.9 MPa	3900 psi	2 in/min (50 mm/min); ASTM D638
Elongation at Break	160 %	160 %	2 in/min (50 mm/min); ASTM D638
Elongation at Yield	14.0 %	14.0 %	2 in/min (20 mm/min); ASTM D638
Flexural Modulus	1.21 GPa	175 ksi	Secant @ 1% strain; ASTM D-790
Izod Impact, Notched	1.17 J/cm	2.19 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	ASTM D648

Qualitative Processing Properties

process Injection Molding

Values reported are typical and should not be interpreted as specifications. Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to our disclaimer and terms of use regarding this information.

Data Properties Disclaimer: Bamberger Polymers shall not be responsible for the applicability or the accuracy of the information contained herein or the suitability of the products described herein for any particular purpose. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the products described herein or with respect to the use of the products described herein.

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Linsey Hahn – President

4/26/2013

Metro Plastics

9175 E 146th St

Noblesville, IN 46060



CERTENE PBM-8 – Polypropylene Impact Copolymer

CERTENE grade PBM-8 complies with FDA regulation 21CFR 177.1520 (a)(3)(i)/(c)3.1+3.2, and most international regulations concerning the use of Polypropylene in contact with food.



Clariant Corporation
Masterbatches Division

675 Wegner Drive
West Chicago, IL 60185
Tel: +1 630 562 9700
Fax: +1 630 562 0700
www.clariant.masterbatches.com

Metro Plastics
9175 East 146th Street
Noblesville, IN 46060
Attn.: Ms. Lindsey Hahn

May 8, 2013

Re: Product FDA Status for CPP-W1602-3, FDA White/UV

Following is the FDA status of the above Clariant Corporation Masterbatches Division product code:

<u>Use Parameters:</u>	<u>End Use Resin</u>	<u>Application</u>	<u>Use Level</u>	<u>Restrictions *</u>
	Polypropylene	Unknown	33:1	The colorant may be used as a component of articles composed of polypropylene that complies with 21 CFR 177.1520, items 1.1, 1.2, or 1.3, that are used in contact with all Food Types identified in Table 1 of 21 CFR 176.170(c) under Conditions of Use B - G as described in Table 2 of 21 CFR 176.170(c).

The components of this product fall under one or more of the following categories for use in contact with food:

1. Colorants listed in 21CFR178.3297 "Colorants for Polymers."
2. Components that are exempt from regulation under 21CFR170.39, "Threshold of Regulation for Substances Used in Food Contact Articles."
3. Polymers and/or additives listed in the appropriate parts of 21CFR (174, 175, 176, 177, 178, 181, 182, 184, and 186).
4. Substances that, based upon legal opinion, supplier certification, and/or extraction results from food-simulating solvents, are not food additives and are acceptable for food contact applications in full compliance with the Federal Food, Drug and Cosmetic Act and all applicable food additive regulations.
5. Substances that are GRAS (Generally Recognized as Safe) for direct addition to food or for use in contact with food.
6. Substances that are "Prior Sanctioned" for use in this application.
7. Substances that are the subject of applicable Food Contact Substance Notifications.
8. Substances supplied or specified by your company for this particular application.

Please note that the FDA maintains no regulations specifying the substances that may be used for packaging of wet or dry pharmaceuticals or medical devices. Testing may be necessary as appropriate for your finished product if these types of applications are your intent.

If any of the use parameters listed above are contemplated to be changed, please contact us so that we may help you to determine whether this product will still be suitable.

Sincerely,

Kurt Hsiung
ISO/Product Stewardship Supervisor

* Restrictions: A key to the food-types and conditions of use is attached
(Tables 1 and 2 from 21CFR176.170)

LOCATION: 2200 ASBURY ROAD ♦ ERIE, PENNSYLVANIA 16506 ♦ U. S. A.
E-MAIL: eriez@eriez.com ♦ WEB SITE: www.eriez.com
PHONE: 814/ 835-6000 ♦ FAX: 814/ 838-4960



April 26, 2013

Lindsey Hahn
Metro Plastics
PO Box 1208
Noblesville, IN 46061

Subject: PolyMag Stainless Powder, FDA CTS 65781

Dear Lindsey,

The PolyMag stainless powder, Eriez item number 448171, used in compounding Metro Plastics' Metal Detectable Polypropylene material, is the same alloy and composition that was originally submitted and reviewed by the FDA in August of 2006.

Please let me know if you have any additional questions.

Regards,

A handwritten signature in black ink, appearing to read "W. John Collins", with a horizontal line extending to the right.

W. John Collins
Manager – Plastics & PolyMag

CC: Bob Browning – Process Controls