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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.

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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.

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,

W. John Collins
Manager – Plastics & PolyMag

CC: Bob Browning – Process Controls



4/26/2013

Lindsey Hahn
Metro Plastics Technologies
9175 E. 146th Street
Noblesville, IN 46061 USA

FDA Status for: PRC 38200

Regarding the status of your above mentioned product please be advised that this formulation conforms to one or more of the following criteria.

- 1) Substances allowed as direct food additives.
- 2) Colorants listed in the pertinent sections of 21CFR 178.3297 "Colorants for Polymers".
- 3) Polymers and/or additives listed in the pertinent 21CFR sections.
- 4) Products supplied by your company for this application.
- 5) Based upon legal opinion, supplier certification, and/or extraction results from food simulated solvents, colorants are acceptable under the FDA's conditions of use C-G, CFR 21 Part 176.170(c) Table 2 in full compliance with the Federal Food, Drug and Cosmetic Act and all applicable food regulations.

Therefore, we consider this product to meet current FDA guidelines for food packaging when used at the proper use ratio and in the agreed upon application.

We hope the above information is helpful to you. If you need additional information, or have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Dan Hunter", is written over a horizontal line.

Dan Hunter
Technical Manager
Badger Color Concentrates, Inc.

Distributed by:

NELSON JAMESON
INC.