Bamberger Polymers Celebrating 20 Years

Printer Friendly Version

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/in³	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 consistant 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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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

A. Schulman

April 30, 2013

Lindsey Hahn
Metro Plastics Technologies Inc
9175 East 146th Street
Noblesville, IN 46061

Dear Lindsey,

In response to your request, the components of A. Schulman Inc product **GY-41486-A Green (1030603)** meet the conditions and requirements of the following sections of 21 CFR (FDA) regulations:

177.1520(c)(3.1)
178.3297
184.1324

This product can be used for conditions of use C through G in 21 CFR 176.170(c), Table 2 and can be used in contact with all food types as listed in 21 CFR 176.170(c), Table 1. This product should not be used for holding or packing food while cooking.

This product is a physical mixture of FDA approved components. Any limitations for use of these components are listed above. If this product is used as an additive or blended with other products, then the final product could have use limitations with food contact. It is the blender's responsibility to make that determination.

This declaration is based on information from our suppliers.

If you need any further regulatory, environmental, safety or health information, please feel free to contact me at 330-668-7343 or Susan_Fizer@us.aschulman.com.

Sincerely,

Susan Fizer
EHS Regulatory Manager