



## 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             | <b>0.903</b> g/cc                                    | <b>0.0326</b> lb/in <sup>3</sup>                     | ASTM D1505 |
| Melt Flow           | 8.00 g/10 min<br>Load 2.16 kg,<br>Temperature 230 °C | 8.00 g/10 min<br>Load 4.76 lb,<br>Temperature 446 °F | ASTM D1238 |

| Mechanical Properties   | Metric           | English              | Comments                        |
|-------------------------|------------------|----------------------|---------------------------------|
| Hardness, Shore D       | 82               | 82                   | ASTM D-2240                     |
| Tensile Strength, Yield | <b>26.9</b> MPa  | <b>3900</b> 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        | <b>1.21</b> GPa  | <b>175</b> ksi       | Secant @ 1% strain; ASTM D-790  |
| Izod Impact, Notched    | <b>1.17</b> J/cm | <b>2.19</b> ft-lb/in | ASTM D256                       |

| Thermal Properties                          | Metric         | English       | Comments  |
|---|----------------|---------------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | <b>84.0</b> °C | <b>183</b> °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

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### **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.



5/1/2013

Lindsey Hahn  
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**FDA Status for:** PXC 38441

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 that reads "Dan Hunter". The signature is written in a cursive style with a long horizontal line extending to the right.

Dan Hunter  
Technical Manager  
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