



» APPLICATION BULLETIN

Mevopur™ Healthcare Bio-based Polymer Solutions for Medical Devices and Pharmaceutical Packaging

Manufacturers of medical devices and pharmaceutical packaging are increasingly faced with the challenge of integrating sustainability considerations into the design of their products. One way to achieve this is to switch to biopolymers where applicable. Biopolymers are already used successfully in different plastic products—notably in packaging—but to be used in healthcare applications, they need to be evaluated against relevant protocols to support regulatory compliance of the end article.

Avient provides pre-tested color and additive concentrates based on biopolymers to reduce the risk of non-compliance and support a more sustainable profile for plastic products used in the healthcare industry.

KEY CHARACTERISTICS

- Available for polyethylene, polypropylene, ABS, polycarbonate and styrenics
- Bio-content of resin carrier varies from 70% to 100% depending on polymer—calculated to ASTM D6866 standard

- Manufactured at several ISO 13485 certified sites across the globe, providing consistency and increased security of supply
- Documented change control beyond CAS number, reducing risk of change
- Drop-in solutions that can be processed like fossil-based grades on common injection molding and extrusion machines
- Can be provided as ready-to-use pre-colored or additive compound

REGULATORY SUPPORT

- Raw materials tested to:
 - ISO 10993-1
 - USP <87> and <88> (incl. class VI)
 - European Pharmacopeia, monograph 3.1.3/3.1.5 (polyolefin packaging materials)
 - USP <661.1> (polyethylene)
 - Elemental impurities as per ICH Q3D
- Registered Drug Master File (Type III) and/or Device Master File
- Food contact declaration according to US FDA/EU*

Sustainability Spotlight



Biopolymers

* US FDA/EU compliance information available upon request





Healthcare use limitations apply—see below.

1.844.4AVIENT
www.avient.com



Copyright © 2026, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as “typical” or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient’s products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

Avient is committed to the needs of our healthcare customers. As part of our commitment, we publish Avient’s Mevopur™ product policy and use limitations to assist customers in their product selection.

It is the responsibility of the medical device manufacturer and the person placing the medical device on the market to ensure compliance of the medical device with all applicable laws and regulations, including the suitability of all raw materials and components used for its manufacture.

Please be aware that there are certain applications Avient’s Mevopur products have not been designed for, nor are they promoted or intended for use in: including, but not limited to long-term or permanent implants, birth control devices, or plastic surgery.

For more detailed information on Mevopur uses and restrictions see www.avient.com/healthcare-use-limitations-mevopur-products or contact your Avient sales representative.