Gravi-Tech™ BIO bio-based formulations are density modified engineered polymers that contain partially bio-based resin from renewable plant sources. They offer a more sustainable alternative to density modified grades based on prime/virgin polymers.

These polymer formulations have been developed to achieve equivalent performance to prime density modified solutions with added sustainability benefits. They help to reduce product carbon footprint compared to fossil feedstock alternatives, reduce waste, and support the circular economy. They allow complex designs without expensive tooling, and performance characteristics (density, corrosion and chemical resistance, mechanical performance) can be customized depending on application need.

Gravi-Tech BIO bio-based formulations enable visual surface effects and aesthetics including metallic finish, cool touch, and color variation. They are suitable for applications in packaging and consumer goods such as cosmetic caps and closures, perfume caps, spirit bottle caps, and luxury boxes.

**KEY CHARACTERISTICS**
- Customized density offering a wide range of specific gravities (1.5–11 gm/cm³)
- Formulated with partially bio-based resin from renewable plant sources
- Broad modulus range, from very flexible to very rigid grades
- Corrosion resistance that withstands oxidization for long-term use and benefit
- Chemical resistance that can be adapted depending on base resin as required
- Provides visual surface effects, aesthetics and cool touch
- Design flexibility and processing ease
- Food contact compliance available

**MARKETS AND APPLICATIONS**
Applications in packaging and consumer goods in which a more sustainable solution is preferred:
- Cosmetic caps and closures
- Perfume caps
- Spirit bottle caps
- Luxury boxes
- Handles and knobs

**SUSTAINABILITY BENEFITS**
- Formulated with partially bio-based resin from renewable plant sources
- Reduces waste and supports the circular economy
- Reduces carbon footprint compared to fossil feedstock alternatives
- Simplifies manufacturing and lowers cost versus metal
## AVAILABLE GRADERS

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<td>2.0</td>
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