



reSound™ Biopolymer Compounds

Made with bio-derived polymers, designed for durable applications

About reSound™ Biopolymer Compounds

PolyOne's exclusive reSound biopolymer compounds combine engineering thermoplastic resins with bio-derived polymers such as PLA, PHB, PHBV and biopolyesters. These compounds offer a unique balance of temperature, impact and cost performance, making them an ideal candidate in durable applications across a variety of industries.



Markets and End-Use Applications

Applications and market spaces that can benefit from the performance properties of reSound compounds, while improving the carbon footprint, include:

- Consumer durable goods
- Electronics equipment
- Medical devices and equipment
- Interior automotive components

Create Value with reSound Biopolymer Compounds

Drive sustainability initiatives. Differentiate product solutions.

Most manufacturers have sustainability initiatives in place to address their carbon footprint. Using bio-derived materials can address sustainability concerns through the reduction of CO₂ emission and energy consumption at the beginning of the product life cycle, in turn reducing the carbon footprint of the final products.

Until now, manufacturers of durable goods had little opportunity to address sustainability by integrating biopolymers into their product design. This is due to the limited performance properties of neat biopolymers.

With reSound biopolymer compounds, customers will have an engineered solution that provides improved performance, such as heat and impact resistance, and offers substantial bio-based content to address marketplace demand for sustainable solutions.

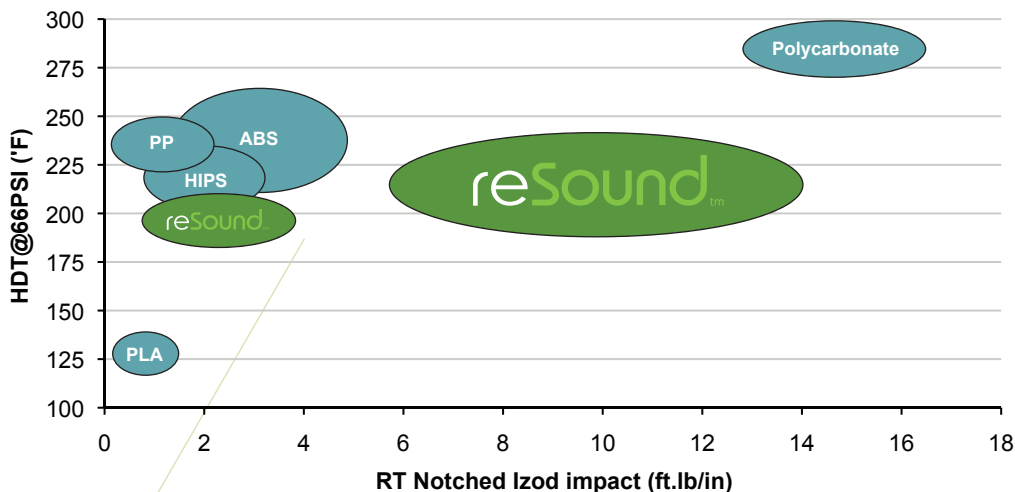


reSound Biopolymer Compounds combine compatible engineering thermoplastic resins with bio-based polymers to achieve a minimum level of 30% bio-based content and are classified as a PolyOne Sustainable Solution*
To learn more go to www.polyone.com/sustain

*The PolyOne Sustainable Solution certification is awarded to those products or services that meet defined criteria for sustainability in areas such as renew-ability, recycle-ability, reusability, eco-friendly composition, or resource efficiency.

Performance Property Matrix

Unlike neat biopolymers, such as PLA, reSound compounds will meet or exceed performance requirements for durable applications previously considered out of reach for bio-based materials. The graphic below highlights two different groupings of reSound compounds with improved performance properties: one grouping demonstrates increased heat resistance and one grouping demonstrates increased heat and impact resistance.



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