



Progress beyond

Solvay Introduces Sustainable Amodel® Bios PPA for E-Mobility Electrical and Electronic Applications

Partially bio-based resin provides superior performance properties at lowest GWP among all PPA in the market

Alpharetta, Ga., May 19, 2021

Solvay has extended its diversified portfolio of high-performance polyphthalamide (PPA) compounds with [Amodel® Bios](#), a new family of partially bio-based long-chain PPA products particularly indicated for demanding electrical and electronic applications in [e-mobility](#). Besides its renewable feedstock content from non-food competing sources, it is produced with 100% renewable electricity, minimizing its global warming potential (GWP) well below the level of other bio-based PPA.

Backed by a long history of pioneering PPA innovations, Solvay's [Amodel® Bios PPA](#) combines this exceptional sustainability with outstanding performance properties for components in [e-motors](#), [power electronics](#) and other high-end electrical systems. Most notably, it offers the highest glass transition temperature (Tg 135°C) of all bio-based PPA in the market and a melting point (Tm) of 315°C. Designed for injection molding, it is an ideal candidate for non-blistering reflow soldered surface mount devices (SMD) and parts in the cooling circuit of power electronics, including fluid connectors.

In addition, the limited moisture absorption of the new polymer versus standard PPA results in a high level of dimensional stability at a low risk of stress corrosion, which is particularly important with regard to miniaturized electrical connectors. [Amodel® Bios PPA](#) also provides superior impact strength even in halogen-free flame-retarded grades complying with UL94 V0, and is well-suited for colorable applications. This is complemented by high elongation, weld-line strength and excellent surface aesthetics.

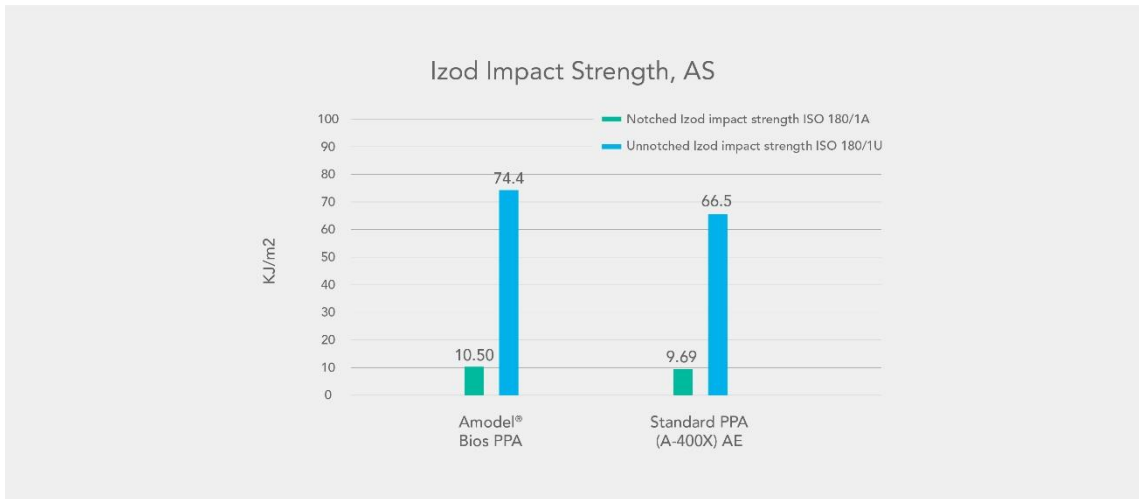
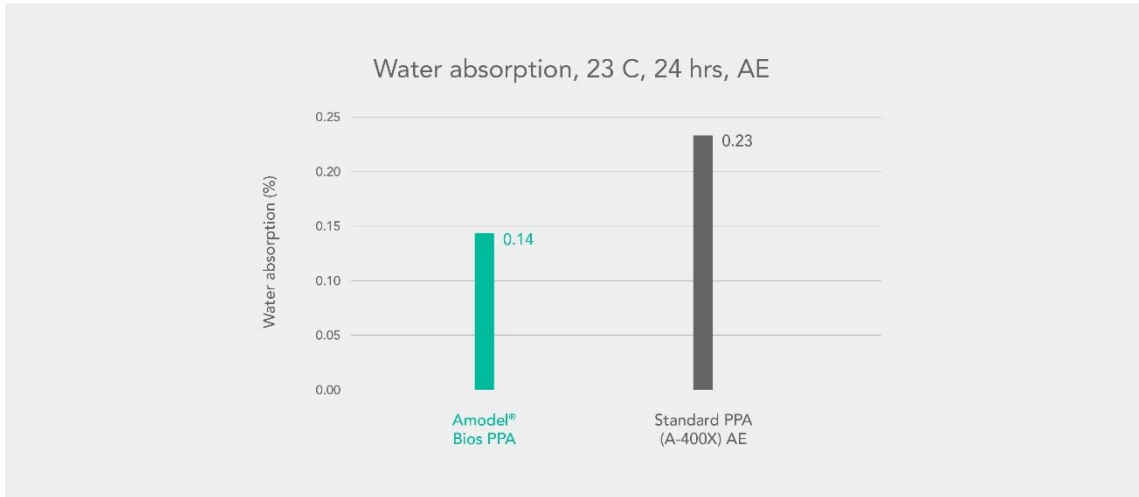
“As we continue driving the innovation of PPA to meet the higher performance needs in e-mobility, the introduction of [Amodel® Bios PPA](#) also demonstrates Solvay’s commitment to help customers achieve ambitious sustainability targets, which aligns with our One Planet message,” states Brian Baleno, Head of Marketing – Transportation at Solvay Specialty Polymers.

Moreover, Solvay has gone one step further in ensuring the sustainability of the new PPA family with the support of Verisk Maplecroft to assess the sustainable sourcing characteristics of the material. The consultancy’s Commodity Risk Service complemented Solvay’s internal supply chain risk assessment process aimed at identifying and managing risks associated with a multitude of environmental, social and corporate governance (ESG) issues.



[Amodel® Bios PPA](#) is globally launched and initially available in four grades differentiated by custom-tailored property profiles for structural, electrification and flame-retardant applications.

Amodel® is a registered trademark of Solvay.



Solvay introduces sustainable Amodel® Bios PPA for e-mobility electrical and electronic applications. (Graphs: Solvay, PR001)



About Solvay

Solvay is a science company whose technologies bring benefits to many aspects of daily life. With more than 23,000 employees in 64 countries, Solvay bonds people, ideas and elements to reinvent progress. The Group seeks to create sustainable shared value for all, notably through its Solvay One Planet roadmap crafted around three pillars: protecting the climate, preserving resources and fostering a better life. The Group's innovative solutions contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices, health care applications, water and air purification systems. Founded in 1863, Solvay today ranks among the world's top three companies for the vast majority of its activities and delivered net sales of €9 billion in 2020. Solvay is listed on Euronext Brussels and Paris (SOLB), and in the United States, where its shares (SOLVY) are traded through a Level I ADR program. Learn more at www.solvay.com.

About Verisk Maplecroft

With 20 years at the forefront of data modelling, risk analysis and strategic forecasting, Verisk Maplecroft offers an unparalleled perspective on the complexities of the global risk landscape and the challenges it presents to business and investors. Its holistic approach to risk combines the world's most extensive portfolio of global risk indices with expert analysis and specialist advisory capabilities to help businesses identify, map and manage the exposure of their operations, supply chains and investments to the full spectrum of risks. From emerging ESG trends, political instability and climate change to resource nationalism, labour rights and security issues, Verisk Maplecroft offers the actionable insight organisations need to make more effective decisions and succeed in an increasingly volatile world. Verisk Maplecroft is a Verisk business (NASDAQ: VRSK).

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