



Progress beyond

Solvay launches new recycled-based high-performance polyamide for consumer appliances

[Omnix® ReCycle HPPA](#) demonstrates lower water absorption, improved flowability and best-in-class surface aspect vs. virgin high-performance polyamides

Brussels, January 26, 2022

Solvay, a leading global supplier of specialty polymers, has introduced a new [Omnix® high-performance polyamide](#) (HPPA) compound family based on a minimum of 33% recycled content, consisting of 70% PIR/PCR recycled resin which is highly secured and has a controlled process by the supplier. The innovative [Omnix® ReCycle HPPA](#) technology follows the company's One Planet roadmap towards continuously improving the environmental footprint and circularity of its product portfolio.

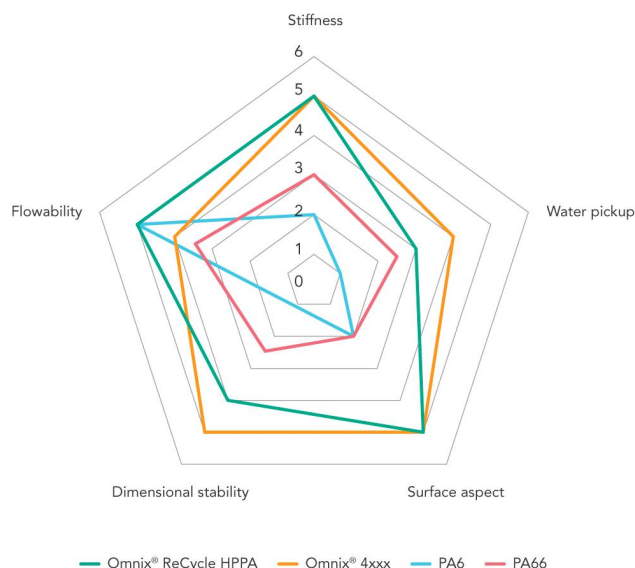
"As Solvay's first-ever recycled-based HPPA with 50% glass fiber reinforcement, [Omnix® ReCycle](#) is a real breakthrough in the market of polyamides for household appliances," says Claire Guerrero, Global Marketing Manager for Packaging Segment and Sustainability at Solvay. "It combines the outstanding mechanical properties of virgin semi-aromatic HPPA with better flow, lower water pickup and best-in-class surface aspect. In addition, its unique performance and sustainability profile offers an attractive material solution for brand owners and manufacturers who seek to increase the recycled content in their products without compromising dimensional stability, high stiffness, impact resistance and processability."

The recycled content of [Omnix® ReCycle](#) saves resources and results in a significantly lower carbon footprint compared to virgin HPPA, thus showing a 30% lower global warming potential (GWP). At the same time, it has an ideal fit for replacing lower-performing polyamides (PA) as well as metals.

In household appliances, for instance, it delivers higher durability than provided by standard PA6 or PA66 polymers. This helps OEMs reduce breakage and damage returns while meeting the growing awareness of consumers for longevity and lower environmental impact in their product choices. With its excellent surface appearance, the new recycled-based HPPA can also eliminate the need for painting, which adds to its overall sustainable benefits and facilitates the end-of-life recyclability of applications in an increasingly circular plastics economy. Another target is wear and tear resistance for lightweight interior components in transportation and automotive.

Solvay's [Omnix® ReCycle](#) can be processed on standard injection molding equipment, including the use of water-heated molds. Following the successful sampling and approval by selected customers, the new sustainable HPPA material is commercially available, world-wide.

Omnix® is a registered trademark of Solvay.



Graphic's source: Solvay

Solvay's new [Omnix® ReCycle](#) combines the outstanding mechanical properties of virgin semi-aromatic HPPA with better flow, lower water pickup and best-in-class surface aspect.

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About Solvay

Solvay is a science company whose technologies bring benefits to many aspects of daily life. With more than 21,000 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). Learn more at www.solvay.com.



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