



Progress beyond

Solvay Launches New Ultra-High Barrier PVDC Coating Solution for More Sustainable Pharmaceutical Blister Films

Diofan[®] Ultra736 provides ultra-high water vapor barrier with excellent thermoformability, unlocking the potential to design thinner and more sustainable blister films

Brussels, October 2, 2023

Solvay, a global market leader in specialty materials, has introduced Diofan[®] Ultra736, a new polyvinylidene chloride (PVDC) coating solution with ultra-high water vapor barrier that allows carbon footprint reduction for pharmaceutical blister films. As an aqueous dispersion, Diofan[®] Ultra736 is fluorine-free, meets regulatory requirements for direct pharmaceutical contact and supports the design of sustainable films with thinner coating designs.

“Consumers and legislators are requesting increased efforts related to carbon footprint reduction from the packaging industry, and one of the most effective means to this end is to reduce the size and weight of packaging products,” says Federico Baruffi, Global Marketing Manager, Packaging, Solvay Specialty Polymers. “Our new Diofan[®] Ultra736 coating solution can help packaging film manufacturers achieve superior barrier properties with thinner structures, leading to a significant carbon footprint reduction of the blister film.”

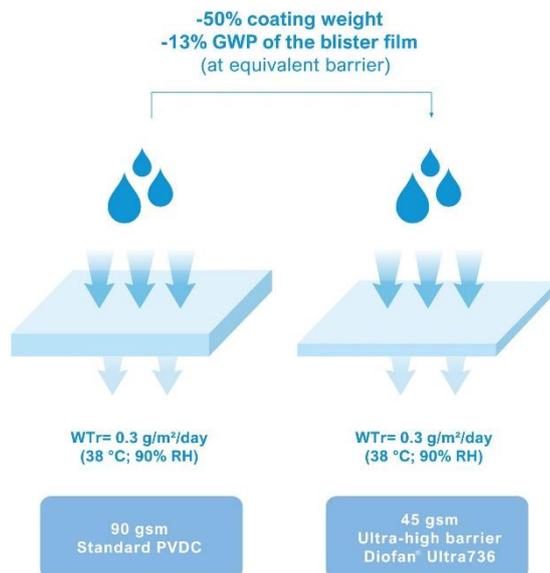
[Diofan[®] PVDC coatings](#) are widely used in pharmaceutical blister packaging to protect sensitive solid-dose drug preparations as well as in the packaging of delicate food and similar other consumer goods. They can be applied on both plastic and paper-based substrates and are often preferred for their unique combination of water vapor and oxygen barrier.

Diofan[®] Ultra736 PVDC coating was custom-engineered to maximize the water vapor barrier without sacrificing its high oxygen barrier, chemical resistance or transparency. The product also exhibits excellent thermoformability, enabling smaller pack sizes with higher pill density if compared with incumbent alternative coating solutions.



Thanks to its ultra-high barrier performance, Diofan® Ultra736 allows the reduction of the coating thickness compared to incumbent mid to high barrier PVDC coatings, without impacting the functionality. In particular, it has been shown that, for Duplex barrier structures, Diofan® Ultra736 enables halving the number of base coat layers while delivering the same water vapor barrier. This approach can contribute to decreasing the overall carbon footprint of final blister film structures by up to 13%¹.

Diofan® is a registered trademark of Solvay.



With regulatory compliance for pharmaceutical-contact applications, Diofan® Ultra736 PVDC is globally available for sampling. (Photo: Solvay, PR090)

¹ Disclaimer: The information related to carbon footprint and GWP is provided by Solvay in good faith and Solvay believes it to be accurate as of the date of this press release, based on a review of recent composition data, and information supplied by the vendors and/or information available in Life Cycle Inventory Databases. The Information, including, but not limited to, the LCA results hereinabove, is provided “as is,” without guarantee, warranty or representation of any kind. To the maximum extent permissible at law, Solvay disclaims all warranties, express or implied, including, without limitation, any warranty of accuracy; completeness; merchantability; fitness for a particular purpose, or non-infringement of third parties’ intellectual property rights. Solvay shall incur no liability in connection with the Information. According to ISO 14040-44 standards, the use of LCA results to support comparative assertions intended to be disclosed raises special concerns and requires specific critical review.



Solvay has launched Diofan[®] Ultra736, a new PVDC coating solution that offers a superior combination of ultra-high water vapor barrier properties at reduced coating thickness for more sustainable pharmaceutical blister films. (Photo: Solvay, PR090)

About Solvay

Solvay is a science company whose technologies bring benefits to many aspects of daily life. With more than 22,000 employees in 61 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 plan crafted around three pillars: protecting the climate, preserving resources and fostering 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 €13.4 billion in 2022. Learn more at www.solvay.com.

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