



Making Connections: XlynX Materials Receives Accolade at ASC Innovation Awards 2023



April 18, 2023 – Dr. Stefania Musolino, XlynX Senior Research Scientist, at The Adhesive & Sealant Council (ASC) Annual Conference in New Orleans, Louisiana, receiving the ASC Innovation Award.



XlynX's Development of Universal Covalent Adhesives for LSE Polymers Recognized by Industry Leaders

XlynX Materials, a specialty chemical and materials company based in Victoria, Canada, is proud to announce that it has been recognized as a recipient of the 2023 Innovation Award at this year's Adhesion and Sealants Council (ASC) Convention and Exposition in New Orleans, Louisiana.

The ASC Innovation Awards Program is designed to foster and encourage innovation by recognizing significant impact chemistries that contribute to advancements in technology and address unmet needs in the adhesives and sealants industry. Past winners and runners-up have included industry giants like DuPont, Dow, H.B. Fuller, PPG, Henkel and Avery Dennison.

XlynX received the award for its submission on the "Development of Universal Covalent Adhesives for Use with Low Surface Energy Polymers", which describes how the company took inspiration from the field of chemical biology to solve long-standing materials science challenges.

Low Surface Energy (LSE) polymers such as polyethylene and polypropylene are extraordinarily useful materials that are increasingly found at the forefront of technological innovation, from ropes and mechanical parts to performance textiles and medical devices. This is because LSE polymers are relatively cheap to produce, can be molded to specific dimensions, and offer remarkable strength, durability, and resistance for such lightweight materials. However, these same qualities result in LSE polymers being extremely resistant to adhesion (gluing), layering, coating, and dyeing applications, which limits how these materials are used.

In response to this challenge, XlynX Materials has developed a highly reactive suite of compounds that chemically insert themselves into unreactive polymer surfaces. In this way, they transform LSE polymers into materials that are no longer resistant to gluing, coating or other adhesion-based applications. This breakthrough "diazirine" technology is enabling the world's most abundant polymers to be used in a host of new applications.

The new compounds, known as BondLynx and PlastiLynx, are easy to apply and are activated by either moderate heat or UV/Vis light. They are primarily designed as adhesives, primers, and textile strengtheners, and the results in these areas have been remarkable. In lap shear tests, the strength of bonds between LSE polymers—glued together with traditional, store-bought adhesives—have been increased by as much as 950% when primed with XlynX's compounds first. Even more encouraging, the company's products are showing tremendous potential in exciting new applications like organic electronics stabilization, quantum dot photopatterning and new composite material development.

To learn more about XlynX Materials or its product lines, PlastiLynx and BondLynx, visit www.xlynxmaterials.com or contact info@xlynxmaterials.com.



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