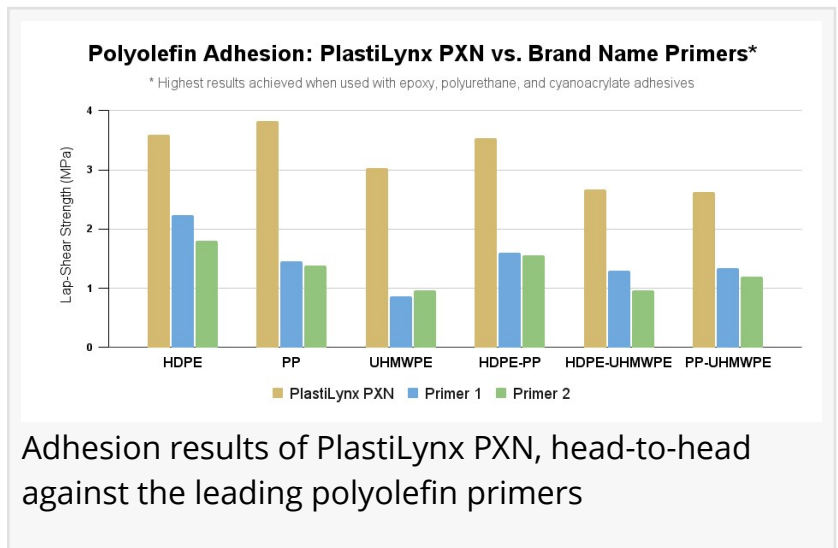


Innovative Primer Establishes New Benchmark For Polymer Adhesion

Diazirine crosslinking primer significantly outperforms conventional alternatives

VICTORIA, BRITISH COLUMBIA, CANADA, February 21, 2024 /EINPresswire.com/ -- [XLYNX Materials](#) announces the launch of PlastiLynx PXN, an advanced PFAS-free universal primer that modifies the surfaces of hard-to-bond polyolefins to enable strong adhesion with glues, coatings, and dyes.



Low surface energy polymers like polypropylene (PP) and polyethylene (PE) are highly valued because of their lightweight strength, affordability, and resilience. However, their incompatibility with adhesives has been an obstacle for many applications. Conventional primers and surface treatments offer imperfect solutions to this problem, but a specialty chemtech company in Victoria, Canada, is now offering a different approach with its unique chemical crosslinking technology.

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Dr. Stefania Musolino, XLYNX R&D Manager

PlastiLynx PXN is the latest and most advanced version of XLYNX's polymeric diazirine primer, providing improved adhesion while also eliminating fluorine from its chemical composition. Head-to-head against the established brand name polyolefin primers, PlastiLynx PXN provided between

150% to 350% stronger adhesion in PP/PE substrate tests. Simply put, PlastiLynx PXN outperforms every polyolefin primer on the market, and does so by a wide margin.

“These latest results really highlight how PlastiLynx PXN is in a class of its own compared to conventional polyolefin primers,” remarked Dr. Stefania Musolino, who led the XLYNX R&D team responsible for the new crosslinker. “Not only did we observe enhanced adhesion across the board, but we also saw strong compatibility with every type of bulk adhesive we tested.”

Unlike commercial polyolefin primers, which are designed to function primarily with cyanoacrylate-type adhesives, PlastiLynx PXN is a universal primer that makes surfaces receptive to all manner of adhesives, including epoxies and polyurethanes. XLYNX Materials tested PlastiLynx PXN with over 15 different leading adhesives - many specifically designed for polymers - and in every case, polymer adhesion was significantly improved. By being able to select the right adhesive for the job, manufacturers can choose from a variety of cost-effective adhesives that work with a much broader range of substrates and applications than ever before.

The product's versatility is a result of the permanent covalent bonds it forms with the substrate surface, leaving a reactive amine layer that is receptive to adhesives, dyes, and coatings. Compared to traditional surface modification techniques for polyolefins like plasma and corona, PlastiLynx PXN is a long-lasting treatment that remains active for months and does not damage the substrate surface.

Typically applied and cured rapidly with UV light or moderate heat, PlastiLynx PXN unlocks new design opportunities, manufacturing efficiencies, and dissimilar bonding applications. With the release of PlastiLynx PXN, XLYNX Materials is now able to offer a full suite of advanced PFAS-free diazirine adhesives and primers designed specifically for polyolefin applications.

To learn more, visit www.xlynxmaterials.com or contact XLYNX Materials at info@xlynxmaterials.com. Trial quantities of PlastiLynx PXN can be purchased through the



XLYNX Materials, Make it Stronger



Trial sized quantities of PlastiLynx PXN are available now

company's website and can often be shipped within a week.

About XLYNX Materials Inc.

XLYNX Materials is an innovative chemtech company located in Victoria, BC, Canada, specializing in diazirine crosslinker adhesives, primers, and surface treatment solutions for low surface energy plastics like polypropylene and polyethylene. XLYNX is the global leader in materials-based diazirine crosslinking and is working with industry leaders and innovative researchers from around the world to address long-standing material adhesion, stability, and strengthening challenges. The company's diazirine crosslinking technology has been published in numerous peer-reviewed academic journals, including Science, and the company was recently awarded a 2023 Innovation Award by the Adhesive and Sealant Council (ASC), joining past winners that include DuPont, Dow, PPG, and Avery Dennison.

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