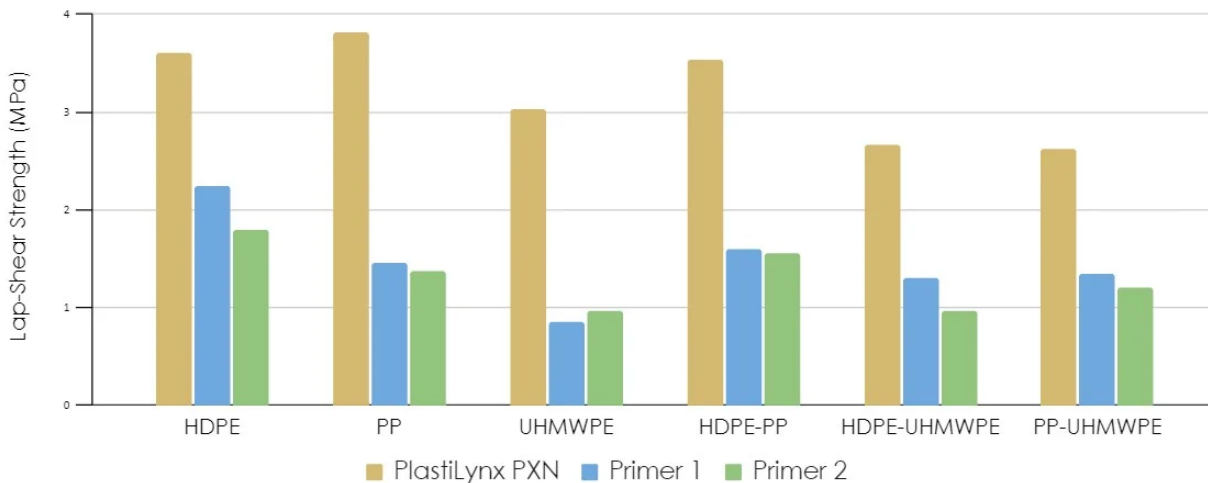




Making Connections: The XLYNX Materials Newsletter February 2024

Polyolefin Adhesion: PlastiLynx PXN vs. Brand Name Primers*

* Highest results achieved when used with epoxy, polyurethane, and cyanoacrylate adhesives



In head-to-head tests against leading polyolefin primers, PlastiLynx PXN provides stronger adhesion

Introducing PlastiLynx PXN, our most advanced polyolefin primer yet!

This month, we launched [PlastiLynx PXN](#), the latest and most advanced PFAS-free version of XLYNX's polymeric diazirine primer.

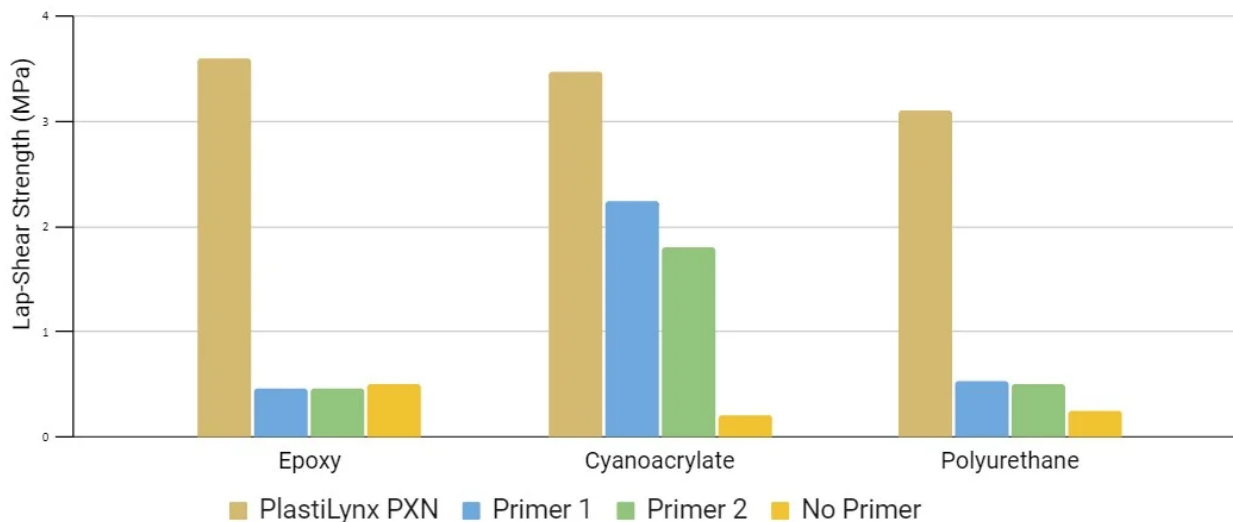
We call it a universal primer for polyolefins, because PlastiLynx PXN is capable of modifying low surface energy polyolefins to bond with a wide variety of adhesives, coatings, and dyes. When re-designing PlastiLynx, our primary objective was to eliminate fluorine from the chemical composition of our polyamine crosslinker. However, we've been amazed by the results!

Head-to-head against the established brand name polyolefin primers, PlastiLynx PXN provided between 150% to 350% stronger adhesion in PP/PE substrate tests.

"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."

HDPE Adhesion: PlastiLynx PXN vs. Brand Name Primers *

* Designed specifically to promote adhesion with low surface energy polyolefin materials



Unlike conventional polyolefin primers, PlastiLynx PXN functions with a wide range of adhesives, including epoxies and polyurethanes

Conventional polyolefin primers function primarily with cyanoacrylate-type adhesives. In comparison, PlastiLynx PXN makes surfaces receptive to all manner of adhesives, including epoxies and polyurethanes. We've 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 due to the permanent covalent bonds it forms with the substrate surface, leaving a reactive amine layer that is receptive to adhesives, dyes, and coatings.



Trial quantities now available

See the difference PlastiLynx PXN can make for yourself

Our knowledgeable team is standing by to answer any questions you may have about our technology, and trial quantities are ready to be shipped to qualified clients. Contact us at info@xlynxmaterials.com for information and pricing.

Typically applied and cured rapidly with UV light or moderate heat, PlastiLynx PXN unlocks new design opportunities, manufacturing efficiencies, and dissimilar bonding applications.

Missed an edition of *Making Connections*?

The *Making Connections* newsletter archive is available on our website. Check out what you missed!

<https://xlynxmaterials.com/newsletter-archive/>

We're Here to Help

What adhesion or stabilization challenge is your business facing?

Let's talk.

Our platform of diazirine crosslinking technology is proven to improve performance across a wide range of applications, and can be customized for specific material substrates.

To learn more, contact us at any time:

info@xlynxmaterials.com



For questions, pricing and trial information

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