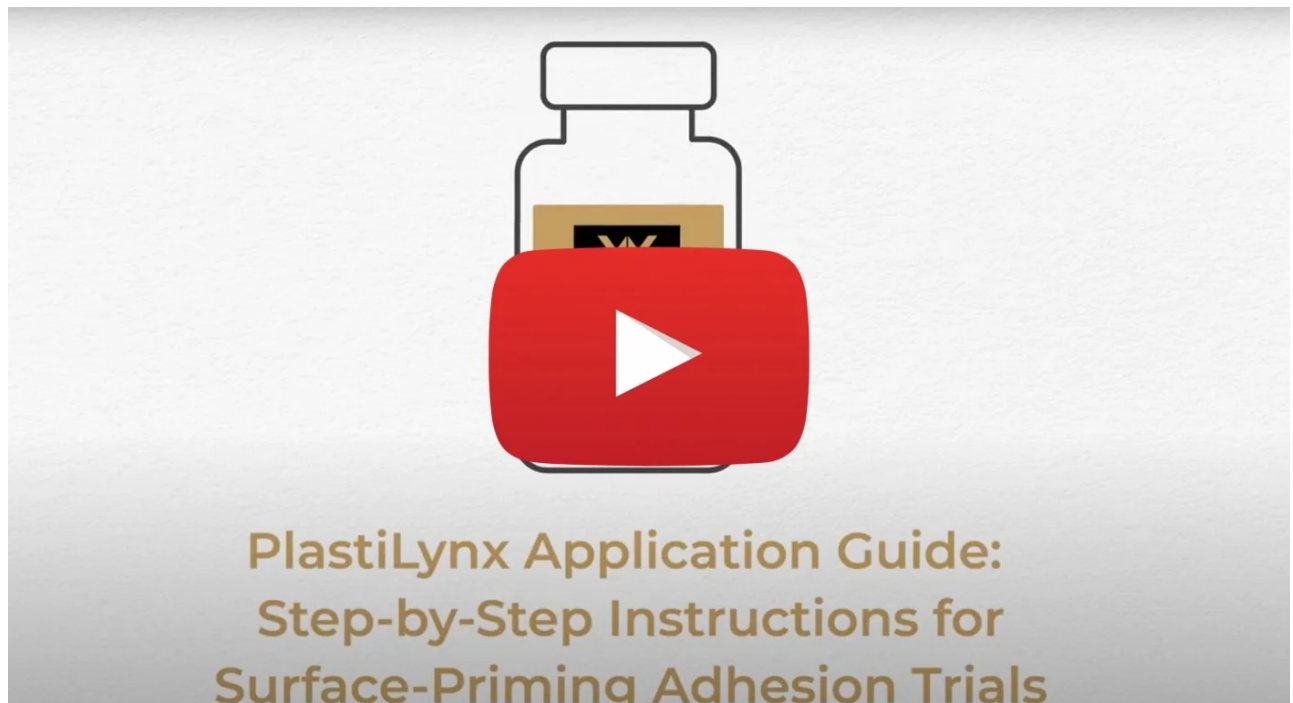




Making Connections:
The XLYNX Materials Newsletter
March 2024

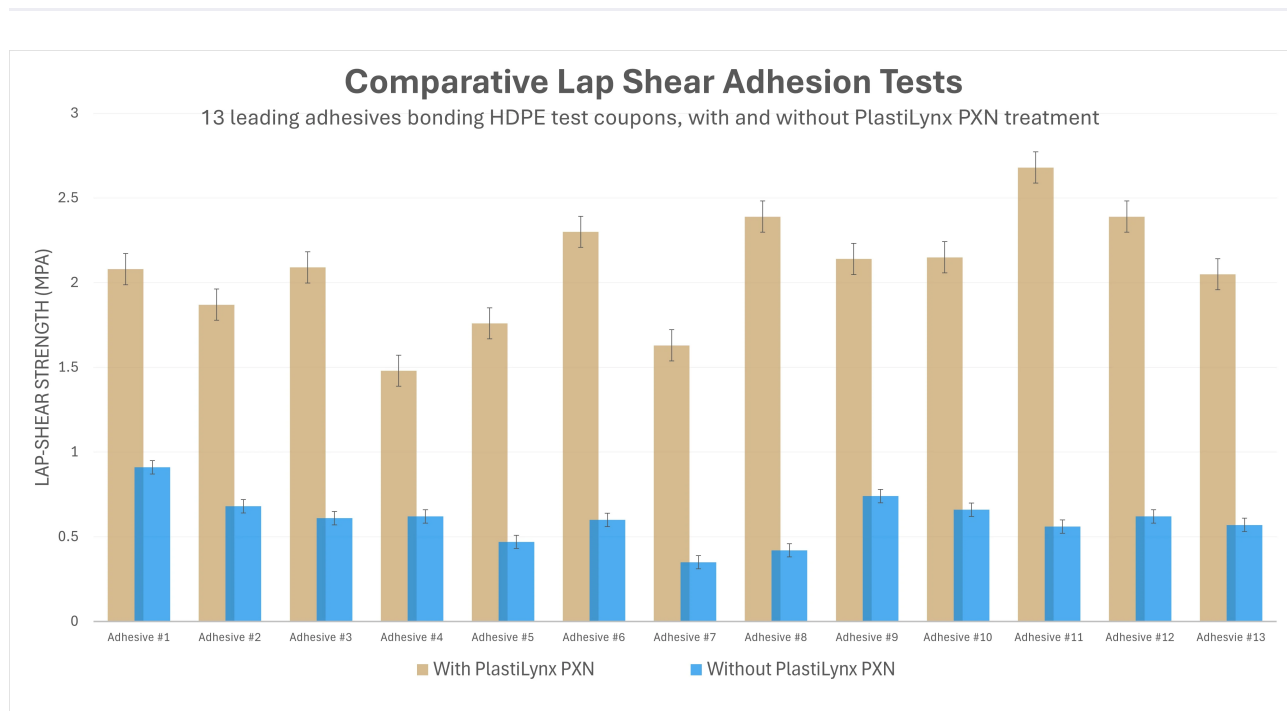


**New BondLynx and PlastiLynx
instructional videos available**

Diazirine crosslinking technology is unique. There's nothing else quite like it on the market for polymer adhesion and priming. Naturally, most people are unfamiliar with how our products work.

To help new users conduct successful first trials with **BondLynx** and **PlastiLynx**, we've created animated explainer videos that highlight how our products should be properly stored, prepared, applied and cured.

If you plan on conducting trials, or are simply interested in learning how our products work, these simple step-by-step instructional videos are now available online. Visit the [BondLynx](#) and [PlastiLynx](#) pages, or click the YouTube video link above.



Across the board, PlastiLynx PXN makes bonds stronger

New PlastiLynx PXN adhesion data

There are a lot of specialty adhesives that provide *some* adhesion with low surface energy materials, but in every case, that level of adhesion can be significantly improved when combined with our fluorine-free diazirine primer, **PlastiLynx PXN**. On average, pre-treating high density polyethylene (HDPE) surfaces with **PlastiLynx PXN** added 350+% adhesion in lap shear tests.

This is based on recent comparative tests conducted with 13 different commercially-available specialty adhesives, many of which were specifically designed for polyolefin applications. No matter the adhesive type or brand, **PlastiLynx PXN** made bonds

stronger. And the same science behind these adhesion improvements also makes **PlastiLynx**-treated polyolefins more receptive to coatings and dyes.

Learn more about PlastiLynx PXN



Glass tubes with quantum dots of perovskite nanocrystals, luminescing under ultraviolet radiation

More support for BondLynx as a perovskite stabilizing agent

Recently, we reported how **BondLynx** diazirine crosslinkers were used to develop [ultra-stable perovskite solar cells](#). A new study published in **ACS Nano** (a journal of the American Chemical Society) provides further evidence that diazirine crosslinkers are improving stability in perovskite applications.

In the study, entitled “[Nondestructive Direct Optical Patterning of Perovskite Nanocrystals with Carbene-Based Ligand Cross-Linkers](#)”, researchers used a diazirine crosslinker based on an early generation of **BondLynx** to pattern perovskite nanocrystal layers.

Typically, the optical or electrical properties of perovskite nanocrystals degrade soon after patterning. With diazirine crosslinking, high-quality nanocrystal patterns were produced with luminance and efficiency results that were among the highest ever achieved for patterned perovskite electroluminescent devices. With this cutting-edge technology having

broad applications in the world of optoelectronic devices - including light-emitting diodes (LEDs), high-definition displays, lasers, solar cells, and photodetectors - XLYNX is keen to engage with companies operating in this space to explore what is possible.



For questions, pricing and trial information

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Visit us at www.xlynxmaterials.com



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