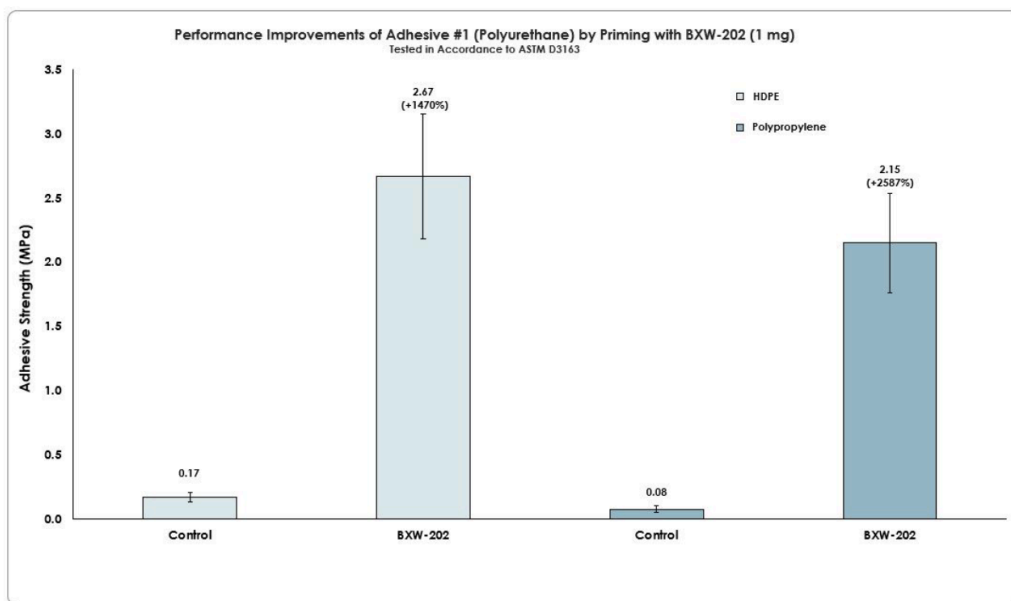




Making Connections:

The XLYNX Materials Newsletter

February 2025



Unlocking Better Adhesion in Marine Applications with BondLynx

In the marine industry, achieving a reliable bond on polyolefin substrates like high-density polyethylene (HDPE) and polypropylene (PP) has long been a major challenge.

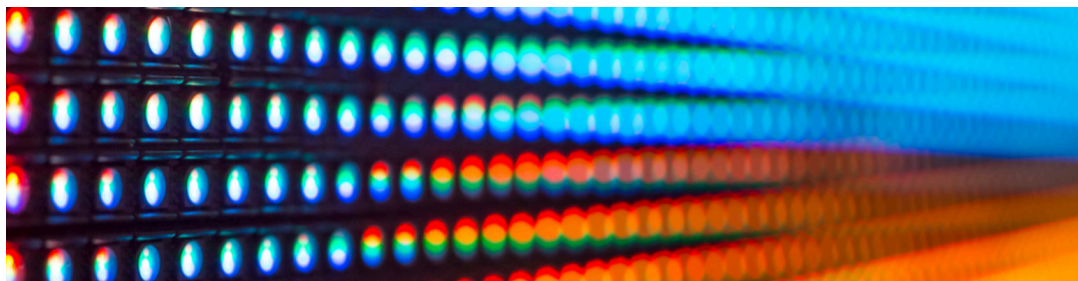
A leading adhesives manufacturer, known for its robust marine products, reached out with a critical need. Their adhesives, although effective in many applications, were underperforming on HDPE and PP. They supplied us with three formulations—two polyurethane-based adhesives (Adhesive #1 and Adhesive #2) and one

polychloroprene-based adhesive (Adhesive #3)—to evaluate whether our advanced primer BXW-202 could bridge this performance gap.

The results speak for themselves. With BXW-202 as a primer, Adhesive #1's performance soared: from an average lap shear strength of 0.17 MPa on HDPE and 0.08 MPa on PP in the control samples, the treated samples achieved 2.67 MPa on HDPE and 2.15 MPa on PP—representing increases of 1470% and 2587%, respectively. Adhesive #2 also delivered impressive results; on HDPE, its lap shear strength improved from 0.18 MPa to 1.73 MPa (an 861% increase), while on PP, it jumped from 0.12 MPa to 1.89 MPa (a 1475% increase).

Read the full story on boosting marine adhesive performance by clicking below.

[Read more](#)



In Case You Missed It: XLYNX Announces Breakthrough in Quantum Dot Photopatterning

We recently issued a press release announcing the breakthrough in direct photopatterning of colloidal quantum dots using our diazine crosslinkers, featured in the [Journal of the American Chemical Society \(JACS\)](#).

This innovation is gaining traction in the microelectronics, photonics, and semiconductor packaging industries, offering a non-destructive, high-resolution solution that eliminates the need for toxic photoresists and etchants. By enabling precise, air-stable quantum dot patterning, this technology supports advancements in QLED, OLED, microLED displays, flexible electronics, quantum dot sensors, and semiconductor packaging applications.

In case you missed it, you can read the full release here: [Press Release](#)

If you are interested in exploring how XLYNX can support your work, get in touch with us at info@xlynxmaterials.com.

Missed an edition of *Making Connections*?

The newsletter archive is now available on our website. Check out what you missed!

[Newsletter Archive](#)

We're Here to Help

What adhesion, stabilization or photopatterning 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

Contact Us

XLYNX Materials Inc.

Victoria, BC Canada

Visit us at www.xlynxmaterials.com



info@xlynxmaterials.com

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