PlastiLynx PXN

Multifunctional Universal Primer

Head-to-head test results

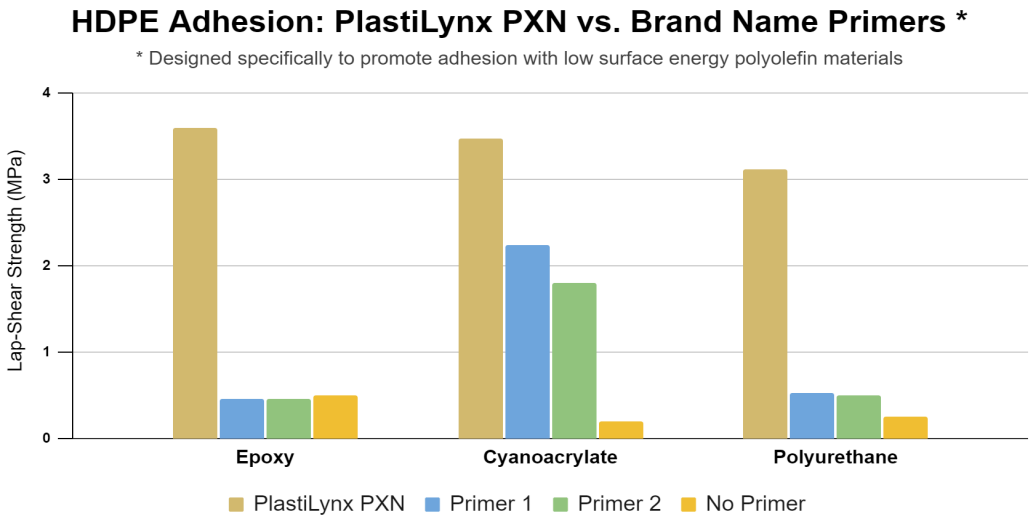
To see how PlastiLynx PXN stacked up against the competition, we performed head-to-head lap shear adhesion tests with the leading polyolefin primers. The difference was nothing short of remarkable.

Compared to other primers, PlastiLynx PXN is in a class of its own. Combined with commercially available adhesives, PlastiLynx PXN treatment makes any bond stronger.

Versatility

PlastiLynx PXN is more versatile than conventional polyolefin primers as it will react with any conventional adhesive, not just cyanoacrylates.

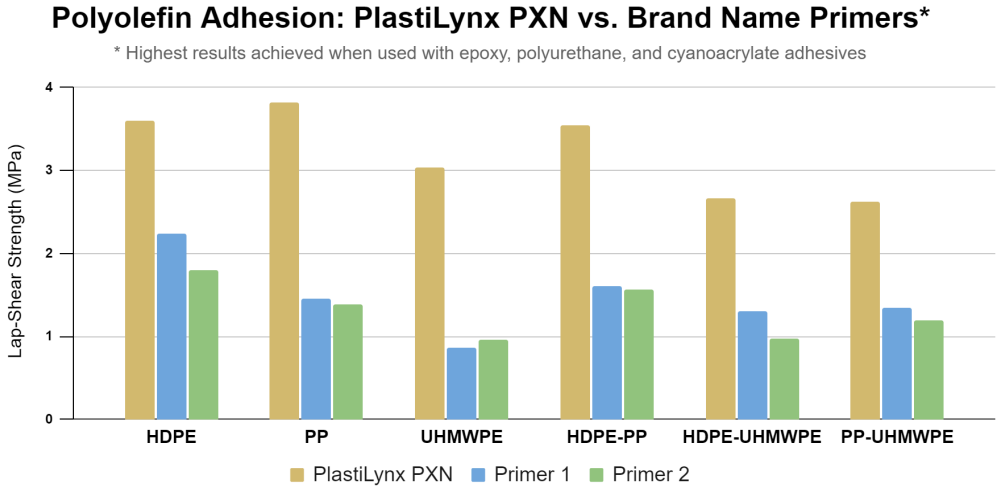
This versatility means more applications and dissimilar material combinations are possible with low surface energy polymers. Choose the right adhesive for the job. PlastiLynx PXN will make it better.



Stronger Adhesion

When comparing the best results achieved with different adhesives, PlastiLynx PXN provided 150% to 350% better adhesion than the leading polyolefin primers.

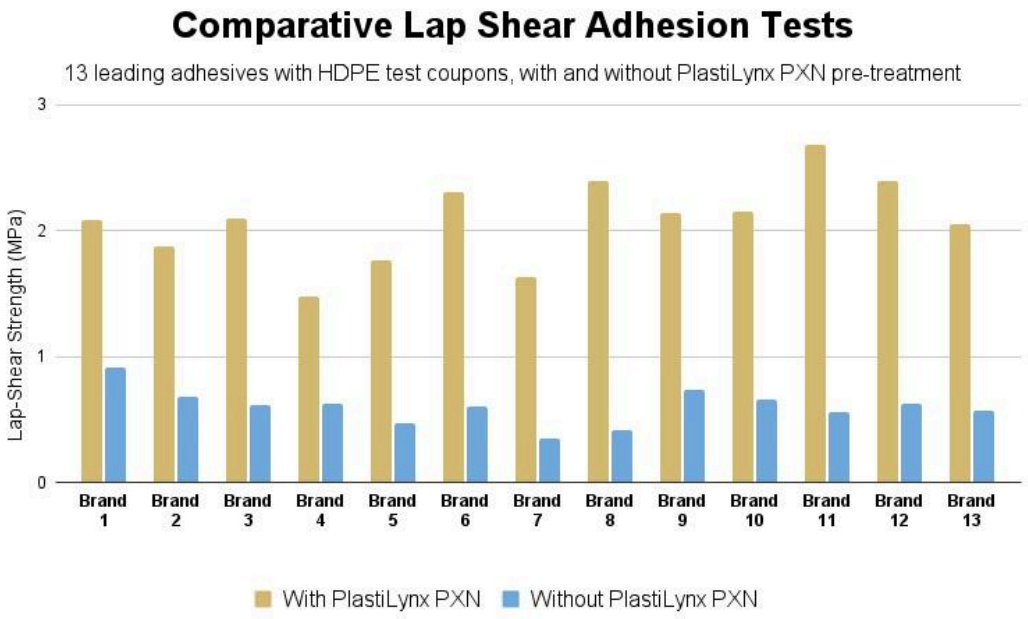
No matter the combination of polypropylene (PP), high-density polyethylene (HDPE), or ultra-high molecular weight polyethylene (UHMWPE), PlastiLynx PXN significantly outperformed the competition.



Make Bonds Better

Most specialty adhesives will provide *some* level of adhesion with polyolefin materials, but in every case that level of adhesion can be significantly improved with PlastiLynx surface treatment.

In HDPE lap shear tests, the adhesive bonds formed by specialty adhesives - many of which were specially designed for polyolefin applications - were improved by more than 350% on average when first treated with PlastiLynx PXN.



Go Beyond Adhesion:

- **Make polyolefins receptive to dyes:** In the same way PlastiLynx PXN makes materials receptive to adhesives, polyolefins can also be dyed with a high degree of color fastness after PlastiLynx surface treatment.
- **Apply specialty coatings:** Functionalize the surfaces of hard-to-bond polyolefins for use with specialty coatings to unlock new potential from materials.
- **Create strong polymer composites:** Use PlastiLynx PXN as a fiber-reinforcing agent between low surface energy polyolefins like UHMWPE and high surface energy epoxy to create ultra-strong composite materials.
- **Highly stable bonds:** Unlike other surface treatments, polyolefin materials can be pre-treated with PlastiLynx PXN long in advance of manufacturing applications. Even when exposed to environmental stimuli (light, heat, moisture), the covalent bonds formed by PlastiLynx PXN on a material surface will remain active and receptive for months.

Discover the difference PlastiLynx PXN can make

For more information about PlastiLynx PXN or to conduct your own trial, contact:

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