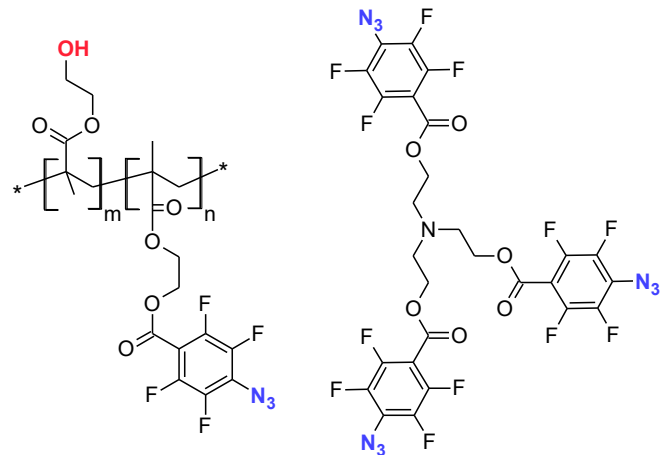
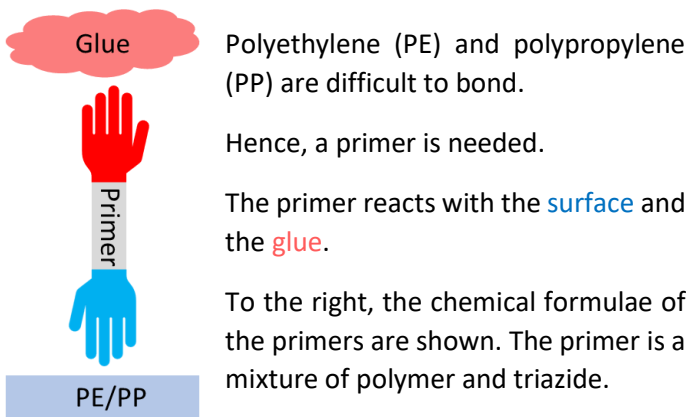


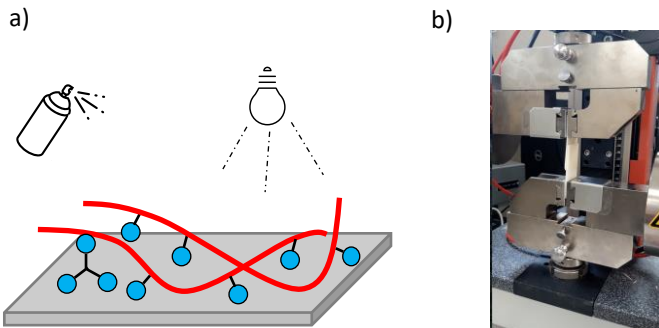
## Easy-to-apply chemical pre-treatment for long lasting bonding with typical adhesives on industrial polyolefins

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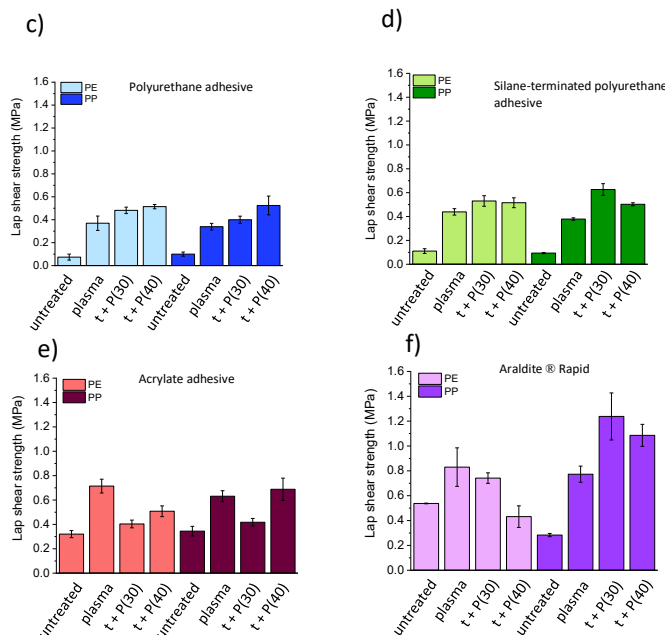
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Polymers: P(30), P(40) Triazide: t



The primer is applied on PE and PP. Then, the surface is treated with UV light to activate the **azide group**. The thus generated nitrene intermediate reacts chemically with a C-H bond of the substrate and the primer becomes firmly attached to the surface (a). Two treated substrates are glued together. The bond strength is determined in a tensile test (b). Four different glues were investigated on PE and PP (c-f). Plasma-treated PE and PP are compared to our primers, t + P(30) and t + P(40). It can be seen that the bond strength using our primers is equal to or surpasses the bond strength of plasma treated PE and PP for some glues. It was also found that additives in the PE negatively influence bond strength using our primers.



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