

Application Case: Laminator

(Proto)typically Lohmann – on the way to the perfect bonding solution.

In the Bonding Arena® Lohmann's Bonding Engineers have testing and processing machines available for application challenges from various industries to accompany their customers from the initial idea to the final process integration. On the way to the perfect bonding solution they start small: Before it's time for the large processing machines, samples and test specimens are produced and modified in close cooperation with the customer until the desired performance is achieved.

In many cases, Lohmann's high-tech adhesive tapes perform much more than a mere bond: They seal, e.g. as vapor barrier tape in the construction industry, form the skin-friendly basis of medical wearables or are electrically conductive.

For the fast-growing market of printed electronics, the Bonding Engineers supply highly cohesive, transparent adhesive films that are both robust and flexible for use in keyboards, displays or sensors – in the fields of Home Appliance & Electronics, Transportation, Medical or Packaging. They also make textiles "smart", for example in the form of heating elements or sensor technology in (outdoor) clothing. Here, precision is required to provide optimum support for the function of the devices.

The roll laminator in the Bonding Arena® is ideally suited for prototyping adhesive solutions in the field of printed electronics. Here, flexible materials and material combinations can be brought together flat on a roll, up to a total thickness of 10 mm. Heatable rollers on the laminator make it



possible to process heat-activated adhesive tapes in addition to pressure-sensitive adhesive tapes. In addition, the heat improves the laminating behavior for each adhesive to be processed.

The Bonding Engineers and their development partners presented a particularly promising prototype at the last LOPEC: an innovative heating system for electric vehicles, the result of cooperation with a specialty film supplier and a well-known car manufacturer.

Do you also have a bonding challenge for us? Please feel free to contact our application engineering department via ae@lohmann-tapes.com!