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CASE STUDY

Fast Curing Catheter Assembly with difficult-to-bond substrate

CUSTOMER CHALLENGE

- Following a change in their material suppliers, a medical device manufacturer required an ultra-fast curing adhesive for difficult to bond substrate, TPE.
- Other industry solutions product was not able to provide the bond strength or cure speed necessary to achieve the desired outcome.

CUSTOMER REQUIREMENTS

- The customer objective was to find an adhesive that could successfully bond TPE despite it being a difficult substrate to bond.
- High speed curing was required to enable immediate quality control testing.
- Given the flexible nature of the substrate, it was also a necessity that the adhesive matched this flexibility.
- Additionally, fluorescent detection of the adhesive was a requirement for the customer.

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HENKEL SOLUTION

- Henkel recommended **LOCTITE® AA3953 Light Cure Adhesive** which is designed for superior adhesion where a fast-curing, highly flexible adhesive is required.
- The Henkel solution enabled improved bond strength while increasing line speed and throughput, and resulted in fewer warranty claims.
- **LOCTITE® AA3953** is a fluorescent, urethane acrylic adhesive used to bond TPEs as well as plasticized PVC and thermoset rubbers.
- The selected product is colorless, transparent, fluorescent, of medium viscosity, and LED light or UV cured.
- LOCTITE® AA3953 is tested to ISO-10993 biocompatibility standards.
- LOCTITE® standard equipment including the Dual Channel Semi-Automatic Dispenser, Curejet® LED and Light Cure Valve was used for accurate, repeatable shot sizes.

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