

# Bonding & Sealing Solutions for Blood Filters

## Opportunity

A medical device manufacturer in the US is designing a new product for filtration and separation of blood cells used in infusion therapy. A fast curing adhesive is required that can provide bond line inspection and passing a 65 lb. pressure test.

**Substrates:** ABS (Acrylonitrile-Butadiene-Styrene)

## Challenges

- Adhesive dispense and cure within 6 seconds to meet production line speeds
- Withstand a 65 lb. pressure test immediately after assembly
- Cured adhesive must be clear, yet easily inspected

## Solutions

**Product(s) used:** Loctite 3936 Med



### Components

No surface preparation of the components is required prior to dispensing the Loctite 3936.



### Dispense and Cure

The Loctite adhesive is dispensed into a tongue and groove joint; parts are assembled and then cured with a Loctite CureJet 405 LED light.



### Post Assembly

Assembly can be inspected to confirm presence of adhesive (Fluorescent Adhesive) and can be immediately tested after assembly.

## Benefits

- Superior strength on ABS, thicker viscosity is more accurately dispensed
- Meets required production cycle times providing lowest overall assembly cost
- Exceeds 65 psi. pressure testing and fluorescence simplifies inspection