Diagnostic Adhesive Solutions

Insight®
Adhesives Research®
Adhesives Research (AR) has been developing and manufacturing custom adhesive and coating technologies for the medical industry for more than 25 years. We offer our partners complete material solutions through polymer synthesis, formulation, coating and laminating. Our enabling technologies deliver heightened performance and novel capabilities to a wide range of in-vitro diagnostic (IVD) applications.

We manage a robust, documented product development process to assure that we meet your exact application requirements. The foundation of AR’s quality system is based on our ISO 9001:2008 and ISO 13485:2003 certifications.

Custom designed to each client’s exact needs, our adhesives provide stable bonds while remaining chemically compatible to the biological sample and assay. We maintain precise product thickness through the use of sophisticated online vision systems and coating controls.

Our core capabilities include:
- Polymerization
- Online thickness and process controls
- Custom developed formulations and configurations
- Variety of base chemistries including silicone, heat-activated and UV-curable

Taking your products further.

AR understands the pressures IVD manufacturers are facing to develop fast-performing, highly sensitive and accurate products in a shortened development cycle. We offer vast materials expertise, a full range of enabling technologies and state-of-the-art manufacturing to deliver highly specialized adhesive and film components.

Non-Reactive
- Chemical resistance
- Ultra-low outgassing
- Biocompatible
- Compatible with reagent chemistries

Stable Bonding
- Thermal stability
- Bonds well to low-energy and high-energy surfaces
- Non-migratory

Optically Clear
- Low birefringence
- Low autofluorescence
- High light transmission

Hydrophilic
- Tailorable contact angles
- Passive sample flow
- Reduces surface energy of fluids
- Increases test speeds

Porous
- Hydrophilic and hydrophobic chemistries
- Custom pore size and density
- Tailorable tack
- Free exchange of fluids and/or gasses

Dissolvable Films
- Customized dissolution rate
- Stable, dry format for sensitive reagents
- Pigment carrier
- Pre-measured dose

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AR's porous adhesive can rapidly transmit fluids or gasses while bonding filters and membranes in applications where conventional PSAs are not an option. This technology offers stable, non-collapsing channels in the Z-axis direction to guide aqueous fluids through layers to prevent spread that can affect test accuracy. The adhesive's pores are uniformly distributed, open cells that create a low-density, highly permeable structure.

**dissolvable films**

The controlled volume of reagents within our dissolvable film technology delivers precise dosing for increased consistency and accurate test results. Characteristics such as thickness, dissolution rate, texture and film strength are all tailorable, making the technology well-suited for meeting the design challenges of today's IVD devices. Dissolution rates may be tailored for the controlled release of reagents or for creating isolation barriers to separate components or reagents within a device.

**put our experience to work for you**

Our adhesive and film technologies offer unique functional capabilities for enhanced product design and performance. Contact us to see how we can work as your complete material supplier for providing the customized adhesive, film and release liner technologies to take your products further.
A permanently independent developer and manufacturer of pressure-sensitive adhesives, tapes, specialty films, coatings, laminates, product authentication and engineered fiber technologies.

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