

# ADP®

## Advanced Desiccant Polymer

### Purpose

To integrate moisture adsorption properties into any plastic packaging system by using a desiccant polymer.

### What is it?

Süd-Chemie's Advanced Desiccant Polymer (ADP®) is a material that combines the advantages of traditional thermoplastic polymers with the benefits of advanced moisture protection. Customized to suit customers' specific needs, ADP can be molded into virtually any shape or size and have dust-free desiccant protection built directly into their polymer walls.

### Why use it?

Products like diagnostic test strips, pharmaceuticals, medical devices and electronics are often extremely sensitive to moisture. With ADP, packaging solutions like hinge-cap tubes, dosers, dispensers, inhalers and bottles can be molded from desiccant polymer material. Caps of fertility or pregnancy test kits or complete IVD housings can be molded from ADP to maintain low humidity levels and protect sensitive reagents from moisture.

With ADP, manufacturers can streamline workflow by eliminating the need for desiccant insertion, foil pouching or carton packaging. Space is also maximized because desiccant is built into the polymer matrix. ADP allows manufacturers to utilize the entire volume of their packaging for their product without an extraneous desiccant. Because ADP has an improved adsorption capacity per unit of volume, it can be integrated into space-restricted packages or can replace an existing plastic component within a device.

All materials used in ADP products for pharmaceutical use comply with CFR 21 or FDA regulations.

### Available configurations

Products made with ADP desiccant polymer are non-dusting, safe and environmentally friendly. All products are customized to meet individual customer needs, making the possibilities almost endless.



ADP® (Advanced Desiccant Polymer) combines thermoplastic polymer resin with desiccant, creating molded device and packaging components with built in moisture protection.

Product examples clockwise from left: effervescent tube with ADP, Flow Limiter™ made with ADP, and diagnostic kit with ADP cap.

### Key Advantages

- Functional integration an existing package or device component can be used to implement desiccant capabilities on top of its original function
- ADP desiccant kinetics can be customized to meet specific absorption rates
- ADP offers an improved adsorption capacity per unit of volume and is the ideal desiccant where packaging space is restricted

Europe · Phone: +33 1 41 76 20 00 · info.france@sud-chemie.com

USA · Phone: +1 909 825 1793 · info@s-cpp.com



www.s-cpp.com

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