

Active Material Science Solutions to Preserve Diagnostic Test Integrity and Ensure Accurate Results

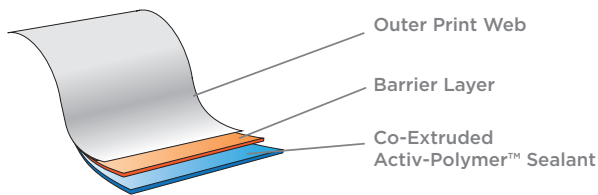
Fully-integrated microclimate protection for diagnostic applications

Diagnostic tests are a critical component of patient care, enabling health care professionals to rapidly diagnose disease and recommend appropriate treatment. Electrochemical, lateral flow, and molecular diagnostic tests are susceptible to moisture that can harm test integrity and limit shelf life. However, Aptar CSP partnered with ProAmpac to offer a moisture-adsorbing flexible packaging solution powered by CSP's 3-Phase Activ-Polymer™ technology. This high-performance solution can be seamlessly integrated into pouches to adsorb moisture, creating an ideal microclimate to protect device integrity and reduce the risk of device contamination while optimizing the manufacturing process.



Moisture Protect Flexible Film Solution

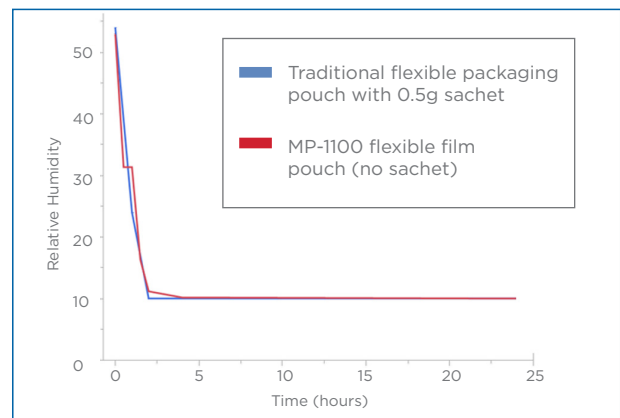
High-Performance Moisture Adsorbing Film Powered by
3-Phase Activ-Polymer™ Technology



In collaboration with



Relative Humidity Performance Comparison 21°C, 53% RH / 6" x 4" Formed Pouch



Benefits

- **Enhanced test accuracy:**
Controlled microclimate mitigates risks associated with RH impact on diagnostic components and reduces “signal to noise” ratio, leading to more consistent reproducibility of results.
- **Improved operational efficiency:**
Eliminates the need for an additional “drop-in” desiccant solution and integration equipment. This alleviates associated operational issues such as dusting and misfeeding, improving throughput.
- **Simplify manufacturing, seamless integration:**
Ready to deploy on existing high-speed flexible packaging filling lines as roll stock or pre-formed pouches.
- **Premium moisture protection:**
High moisture capacity flexible film adsorbs residual moisture from product as well as moisture entering through seal areas.
- **Expanded assay development opportunities:**
Expanded development boundaries to utilize greater list of input ingredients and materials not feasible in less protective packaging solutions.
- **Capable of Hermetic Sealing:**
Active technology has no negative impact on sealing. Lock seal achieved with no impact to manufacturing line speed.