



GENERAL INFORMATION AND RECOMMENDATIONS ON KN-2211™ ADHESIVE

- An backing card adhesive is a fine balance between a number of characteristics, one of them being the firmness: if it is too soft it will flow easily and stick to almost anything but may be counterproductive as it will also flow too much into and penetrate pores of porous filter materials, reducing absorbency and hindering flow. In addition, there will be more adhesive residue left on cutting blades, reducing output due to frequent cleaning cycles.
- Ensure all surfaces are free of dust or any possible loose particles that can reduce direct contact between adhesive and filter pads and/or membrane.
- Ensure that sufficient “pressure” is applied **to obtain as intimate contact as possible** between the 2 substrates. Be careful not to apply too much pressure which will compress/distort the pads or crack the membrane.
- **Bond strength increases over time, from 2 to 4 hours and peaks at 24 hours.** If after 24 hours the bond is insufficient, it will not further improve. **After mounting pads, wait 4 to 24 hours before processing further.** If no improvement: either one of our alternative adhesives needs to be sampled or a slight re-design of the assay needs to be considered.
- Increase of bond strength is a result of the viscoelastic properties of a pressure sensitive adhesive. The growing degree of ‘adhesive strength’ occurs because of the time it takes for the adhesive to flow onto (wet out) and into the surface texture, and for the adhesive polymer to align with the surface to create the interactions.

Last but not least: one adhesive formulation can never bond to every type of material and there are many different surface energy materials in use in IVD, which range from hard to bond to fairly easy to bond. We have other formulations which have better “grab”. However, in 95% of cases the KN-2211™ remains the adhesive of choice, after some slight adjustments.

For more information, please visit our website via any of the 3 url links below

www.kenoshatapes.com

www.backingcards.com

www.lateralflowtapes.com