

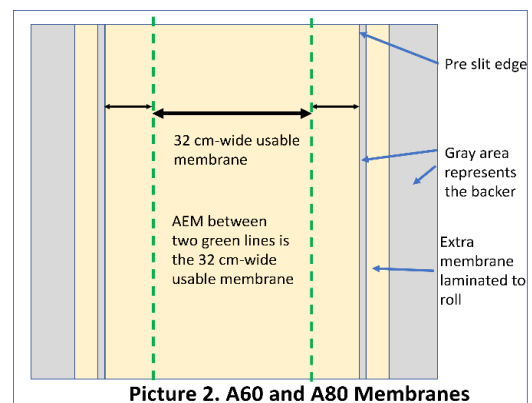
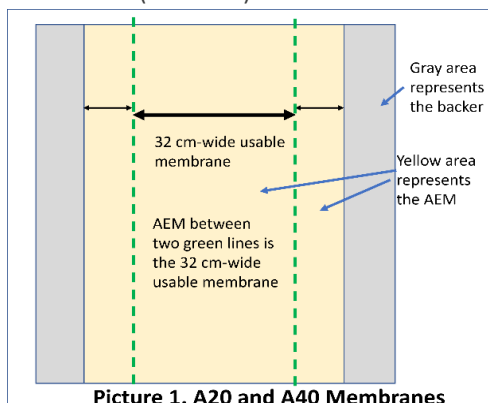
## Membrane Characteristics and How to Handle

Versogen's Piperlon® AEM membrane typically has a transparent yellowish color and may have a slight smell of amine which is normal. Changes in this color do not influence final performance and are not considered a defect.

After taking off the AEM from the Backer and refolding the membrane, visual creases may appear, and this will not have any impact on the membrane performance as the crease will disappear after soaking the AEM in water or KOH solution. Some membranes are already off the backer when rolled, so sometimes you have areas of creases from rolling. **This is not a defect.**

The counter-anion of the AEM is bicarbonate/carbonate mixture and conditioning the membrane in 1M KOH at a temperature between 25 °C and 40°C for 6h to 12h will help enhance the membrane performance.

A20 and A40 membranes are shipped without pre slit edges. Measure from the center of the membrane out 32cm to achieve your usable membrane. (Picture 1) A60 and A80 have pre slit edges that leave the raw edge of the membrane on the backer. Measure from the center of the pre slit membrane area out 32cm. This is the usable membrane. (Picture 2)



To release AEM from the backer, please follow the recommendations below if the membrane is not delaminating on its own.

1. Cut the membrane slightly larger than the desired dimension and cut off a small corner of the backer (Picture 3).
2. The A20 and A40 membrane usually will release from the backer once it is cut, making it easier for removal.
3. If the AEM does not release after cutting the corner off, put a small piece of tape on the AEM of the cut corner, then pull the tape from top right towards the bottom left as indicated by the red arrow (Picture 3).
4. Once your roll of membrane is cut, please place a piece of PET tape fully across the cut seam of the unused roll. This will keep air out of the roll and help reduce membrane swelling due to air exposure.

