

PLASMA BIONICS

RECOMMENDED POUCHES AND WRAPS FOR AIR PLASMA STERILIZATION®

POUCHES

Sterilization pouches used with Air Plasma Sterilization® **must have a sterile barrier material composed of Tyvek®**. Many sterilization pouches designed for use in steam autoclaves and ethylene oxide sterilizers have a paper-based sterile barrier material that becomes brittle after going through an Air Plasma Sterilization® cycle. The paper on these pouches may break or crack prematurely, compromising the sterility of the instrument(s) inside the pouch. When purchasing pouches to use in an Air Plasma Sterilization® cycle, **it is best to ensure the word “Tyvek®” is printed on the box, pouch, or packaging material**. Pouches approved for use must be made of Tyvek® on one side and a clear plastic on the other side or Tyvek® on both sides.

Examples of recommended Tyvek® sterilization pouches:

(select appropriate size for specific applications):

Self-Seal Tyvek Pouch – 3.5" x 9" – Box of 200

<https://plasmabionics.com/product/3-5-x-9-self-seal-tyvek-pouch-box-of-200/>

Heat-Seal Tyvek Roll – 6" x 100'

<https://plasmabionics.com/product/6-x-100-heat-seal-roll/>

WRAPS

Only SMS wraps should be used with Air Plasma Sterilization®. SMS wraps are composed of 3 or more alternating layers of spunbound and meltblown polypropylene plastic (the “S” and “M” in SMS). This provides exceptional strength and a reliable sterile barrier that prevents microorganisms from penetrating the wrap while allowing sterilant gases to easily pass through and thoroughly contact all parts of the instruments inside the wrap. Other wrap materials (e.g., cellulose, muslin cloth, linen, cotton) either become brittle after an Air Plasma Sterilization® cycle or do not allow the sterilant gases to easily pass through the wrap material to contact the instruments inside.

Example of recommended SMS sterilization wraps:

(select appropriate size and grade for specific applications):

Medline Gemini Sterilization Wraps

<https://www.medline.com/product/Heavyweight-Surgical-Instrument-Sterilization-Wraps/Sterilization-Wraps/Z05-PF09206#mrkMore>

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