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RESEARCH LABORATORIES, INC.

| Technical Support Bulletin 2014-01 | RAS Bag Materials | June 13, 2014 |
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Alert Level: **INFORMATIONAL**

Instruments: RAS-100, RAS-500

Software Versions: All versions

Hardware Version: N/A

**Subject:** RAS Bag Materials

**Summary:** Several RAS sample bag materials are available and described here in detail.

**Technical Details:** Available RAS bag materials are Mylar® laminated, Tedlar® or Kynar®. Each material is suitable for sampling seawater, however, the scientist must evaluate the application with regard to their specific biogeochemical application.

McLane can provide one of each bag type bag if needed for compatibility testing. Contact us at www.mclanelabs.com for bag samples.

**MYLAR Laminated**
The opaque laminated bags have an inner layer of polyethylene, middle layer of aluminum foil, and outer layer of polyester (Mylar). Total thickness is 4ml. The layers are laminated with a solventless polyurethane adhesive.

**Note -** RAS users have reported that Mercuric Chloride is not compatible with the inner polyethylene liner of Mylar laminated bags.

**TEDLAR**
The clear Tedlar bags are 2mil thick polyvinyl fluoride film. Tedlar bags are not affected by mercuric chloride.

**Tedlar Datasheet :**
http://www2.dupont.com/Tedlar_PVF_Film/en_US/assets/downloads/pdf/Tedlar_GeneralProperties.pdf

**KYNAR**
The clear Kynar bags are very durable, 4mil thick polyvinylidene fluoride film.

**Kynar Datasheet:**
http://americas.kynar.com/export/sites/kynar-americas/.content/medias/downloads/literature/kynar-film-pvdf.pdf



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