



# COLIBRI SYSTEM S.p.A.



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## Excerpts

from the official analysis performed by the

### **Canadian Conservation Institute**

on the Material utilized by the company CoLibri Cover System S.p.A.

for the manufacturing of the covers used with the CoLibri Book Cover System.

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## Page 1

#### **Abstract:**

- “CoLibri Book Covers are made of low density polyethylene containing a small amount of alkyl amide slip agents”
- “Products made from this type of material are acceptable for conservation applications in terms of their chemical stability and are unlikely to cause damage to nearby objects.”

#### **Excerpts from the Technical Specifications:**

- “permeability to water vapour s minimal but it shows **very high permeability towards oxygen**, carbon dioxide and many odorous and aromatic solvents.”
  - “satisfies the requirements stipulated by the German Federal Health Service as far as the use of plastic materials in contact with foodstuffs is concerned.”
  - “anti-static structure remains effective over long periods of time, even after the product is washed.”
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## Page 3

### **Stability and Degradation:**

- “In terms of chemical stability, although different types of polyethylene have different degrees of stability (which will be discussed below), **I consider all types of polyethylene products to be among the most suitable plastics for conservation and museum applications.**”

## Page 4

### **Oxidation:**

- “In this application the amount of oxidation products from polyethylene is most likely much less than from the books that are inside the covers.”

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### **Conclusions:**

- “LDPE (material the CoLibri Book Covers are made of) is among the most stable polymers in normal indoor museum conditions and is recommended for museum and conservation applications. LDPE can be considered as a **“Feller Class A material” being of excellent quality suitable for use in conservation practice which might give at least 100 years of satisfactory service.** CoLibri book covers made for LDPE are acceptable for their intended use as book covers.”