

# POLYESTER

KARYN MANUELLA



FINAL PROJECT

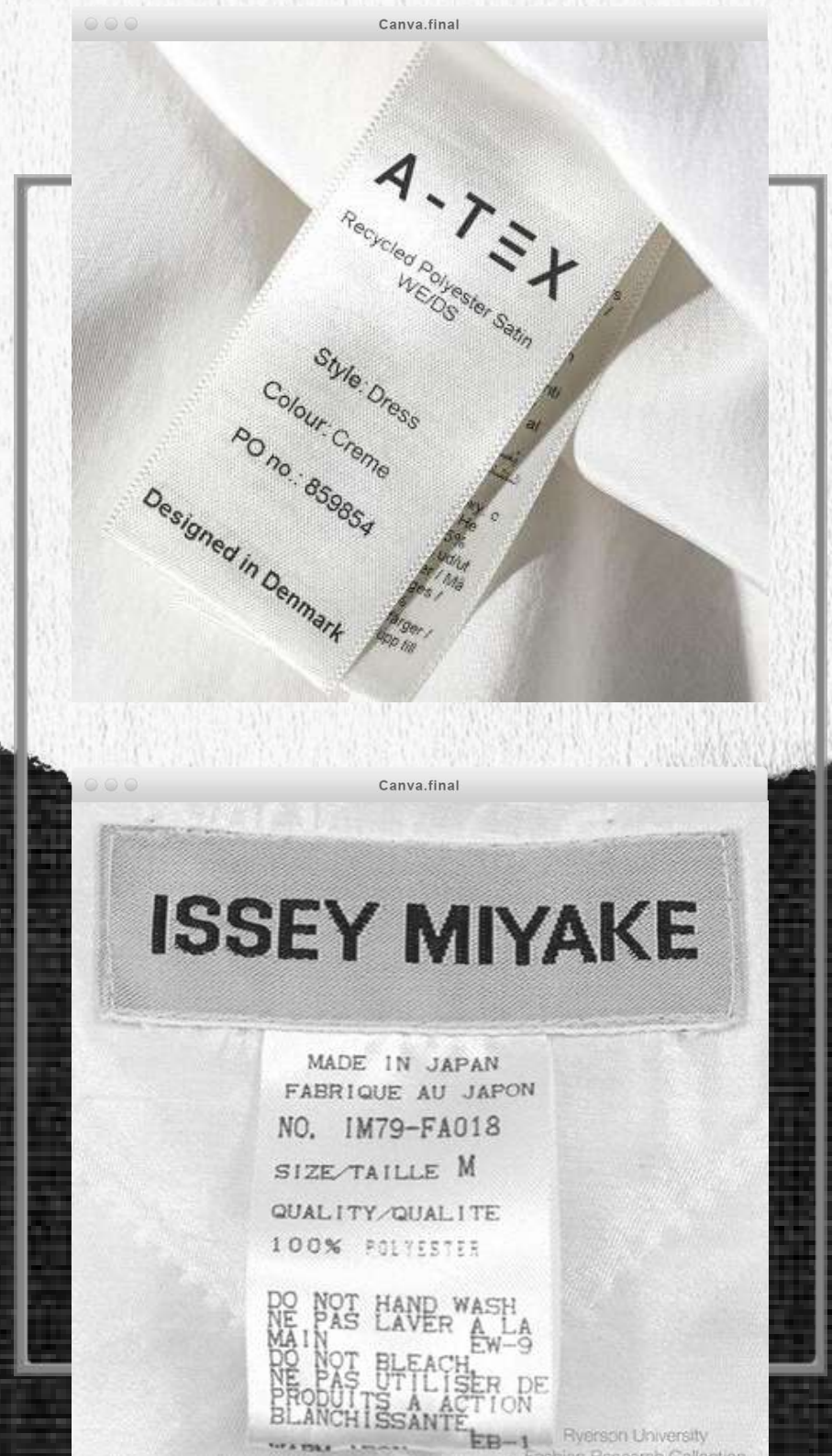
STUDY & ANALYSIS OF FIBERS AND TEXTILE



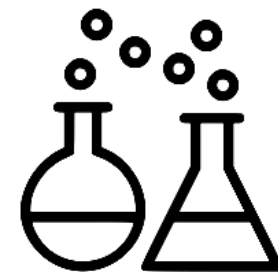
**LASALLE COLLEGE INTERNATIONAL JAKARTA**



# ALL ABOUT POLYESTER







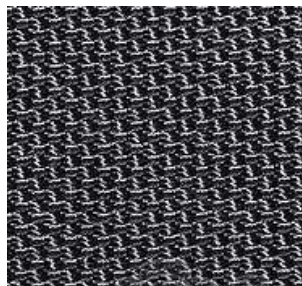
## WHAT IS POLYESTER?



**pol·y·es·ter**/'pälē,estər/

noun

A synthetic man-made polymer made by mixing Ethylene glycol & Terephthalic acid.



: Texture of Polyester

BASICALLY...

**POLYESTER  
IS A KIND OF  
PLASTIC.**

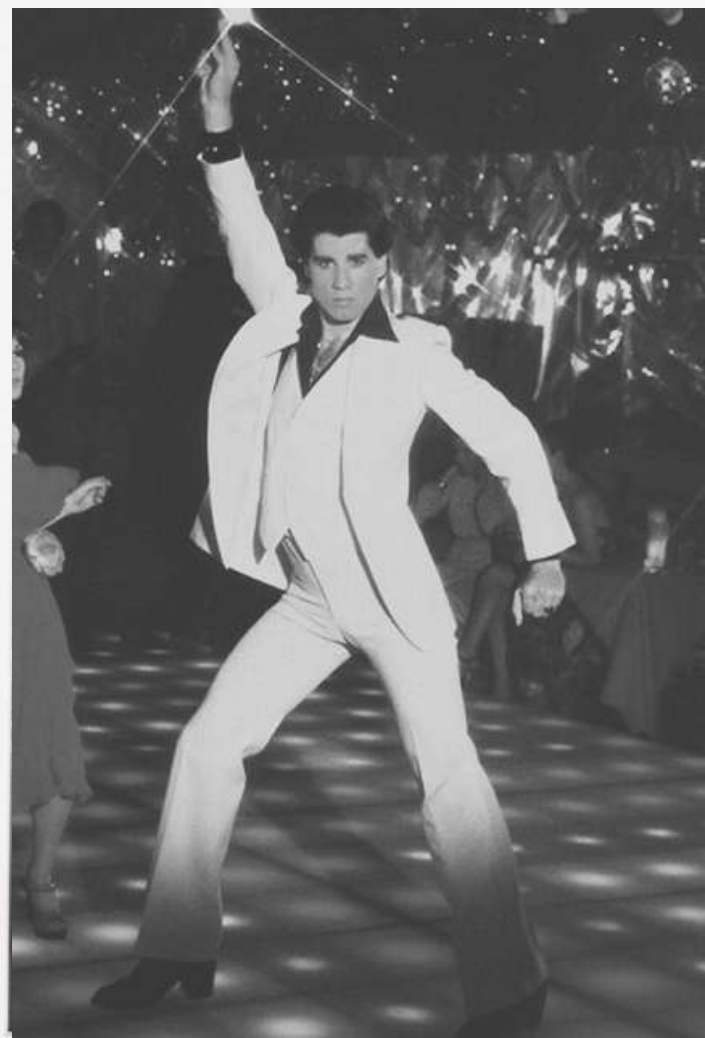


**1926** Discovery by Wallace Carothers



*Wallace Carothers*

# HISTORY OF POLYESTER



↓  
**1939** Creation of Fiber by John Winfield & James Dickson

**1950** Production of fiber

**1951** Introduced to the public as "MIRACLE FABRIC"

→ **1970** Increased in popularity



# WHY



# POLYESTER

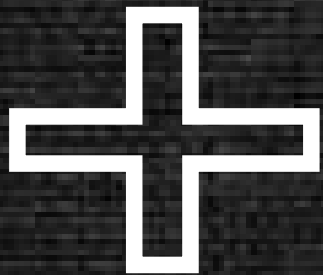


# MIRACLE FABRIC

Polyester is easy to mix with natural fibers. Natural fibers are not chemical resistance which makes them more fragile. Polyesters are needed to help protect the fibers.

# ADVANTAGES

- STRONG
- FLEXIBLE
- DURABLE
- DRIES QUICKLY
- RESISTS WRINKLES
- RESISTS SHRINKING
- INEXPENSIVE



# DISADVANTAGES

- LACK OF ABSORPTION
- NOT BREATHABLE
- TEMPERATURE SENSITIVE
- HARMFUL TO THE ENVIRONMENT



# HOW IS POLYESTER MADE?



**01**

**CREATING A  
MONOMER**

**CREATING A  
POLYMER**

**02**

**03**

**EXTRUDING**

**SPINNING**

**04**

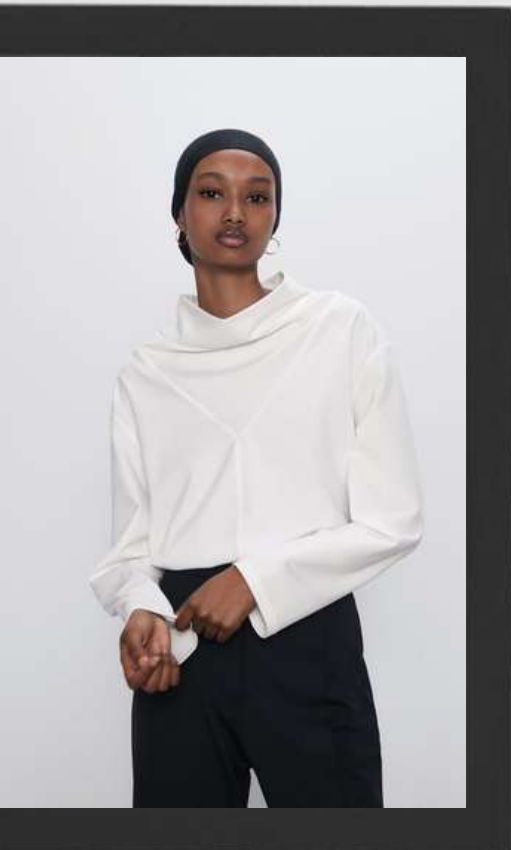
**05**

**FINISHING**



# POLYESTER IS EVERYWHERE.

CLOTHING, SHOES, BAGS, BEDSHEETS, TENTS, BELTS, ETC.



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