INTRODUCTION

First manufactured in Germany in 1893, acrylic was created with similar characteristics and properties of wool. The E.I. Dupont Company then introduced acrylic into the United States market in 1950. By 1991, acrylic became a widely used fabric for sweaters, blankets, and other items that consumers needed to wash and wear often. Acrylic fibers can be produced using one of two methods. The first is most commonly known as wet and dry spinning. This process produces fibers with very different characteristics; because of this, customers are required to follow the care labels exactly when the garment enters the laundering process (Kadolph, Langford, Hallen & Saddler, 1993).

Even though acrylic can be considered a replacement for wool, there are some differences and similarities between wool and acrylic. Like wool, acrylic is crimped when it goes through the dry spinning process, but acrylic unlike wool provides bulk and warmth with no excess weight (Kadolph, Langford, Hallen & Saddler, 1993). Due to the fact that acrylic is the best substitute for wool, it is readily available to consumers and is significantly less expensive (Cohen & Johnson, 2010).
ADVANTAGES OF ACRYLIC FABRIC:
- Lightweight
- Good resiliency (fabric returns to original shape and form after washing or being altered)
- Good elasticity (the fabric can stretch and recover after tension is created)
- Soft hand
- Provides warmth to wearer
- Wicks moisture away from skin
- Excellent resistance to sunlight and weathering
- Washable (depending on type and finish)

DISADVANTAGES OF ACRYLIC FABRIC:
- Susceptible to stretching and shrinkage
- Fair strength
- Hydrophobic nature results in static electricity and pilling
- Decomposes and discolors when exposed to extreme heat

END USES OF ACRYLIC FABRIC:
- Apparel: sweaters, socks, fleece fabrics, knitted apparel
- Interior: window treatments (some drapery includes acrylic fabric), furniture coverings, and rugs
- Industrial: awnings, luggage, boat and vehicle covers
- Miscellaneous: blankets, stuffed animals (fur)
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