

PROVINCIAL  
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Synthetic Fibers / Man-made Fabric

# Polyester

Polyester is composed of 85% weight of a polymeric ester of substituted aromatic carboxylic acid. It is a highly versatile fiber with excellent qualities of abrasion resistance, water repulsion, and quick drying. It has a low raw material and production cost so it is very popularly used in items of clothing, home furnishings and as reinforcement in wires, belts, and hoses.



# Rayon

Rayon is a synthetic fiber obtained by chemical processing of regenerated cellulose. It is commonly sold as “Artificial Silk”. Apparels, furnishings, sanitary products, diapers, medical supplies are routine areas of rayon use. Rayon is expensive and has poor abrasion resistance compared to other synthetic fibers. 30% of its strength is lost when wet.

# Acrylics

Acrylic is a light and strong fiber with an uneven surface. Acrylic is produced by addition polymerization. 85% of its weight comprises of acrylonitrile or vinyl cyanide. It does not absorb water. It provides the warmth and softness of wool and so is commonly used in winter products like blankets and sweaters.



# Nylon

Nylon is made of polyamide. It is highly durable and strong. It has resistance to bacteria, mildew, abrasion, and wrinkles. It does not absorb water readily and dries quickly. So it is incorporated in fabrics for carpets, swimwear, and athletic wear. It absorbs oil and grease and is not airy; so it can be uncomfortable to wear in regular items of clothing.

# Polyethylene

Polyethylene is the product obtained by ester bond formation between terephthalic acid and ethylene glycol. It is 10 times stronger than steel. It has superior abrasion resistance. It repels soil, dirt, chemical, and water and it has the special ability to float in water. So it is used in areas of high wear and tear like police-military clothing, helmets, fishing cords, gloves, and other safety apparel.

# Thank You!!

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