



## *Summary*

### **IS 17730 (Part 1): 2021**

#### **Argo-Textiles Hail Protection Nets for Agriculture and Horticulture Purposes Specification**

##### **Part 1 Warp Knitted Hail Protection Nets**

**Warp knitted hail protection nets** are specially designed nets used in agriculture and horticulture to protect crops from hail damage. These nets are made using a warp knitting technique, which creates a durable and flexible fabric capable of absorbing the impact of hailstones, thus preventing physical damage to plants while allowing essential sunlight and air to pass through. This makes them ideal for protecting sensitive crops like fruits, vegetables, and flowers.

**IS 17730 (Part 1): 2021** is a standard that specifies the requirements for **warp-knitted hail protection nets** used in agriculture and horticulture to safeguard crops from hail damage. The standard provides detailed guidelines on the design, materials, and performance characteristics of these nets, ensuring they are suitable for protecting crops. The focus of **Part 1** of this standard is on **warp-knitted nets**, which are made by a specific knitting technique that ensures durability, flexibility, and effective protection against hail. The nets are designed to absorb the impact of hailstones, preventing damage to crops, while also allowing adequate sunlight and airflow to reach the plants.

The characteristics of warp-knitted hail protection nets include their **strength, UV resistance, and weather durability**. Key specifications covered in the standard include the types of materials used for the netting, such as high-quality synthetic fibers (e.g., polyethylene or polypropylene), and the required strength, UV resistance, and durability of the nets to withstand various environmental conditions. The standard also addresses aspects such as **mesh size, tensile strength, elongation, and the resistance of the nets to weathering, UV degradation, and mechanical wear over time**.

The **mesh size** of the nets is carefully designed to prevent hailstones from reaching the crops while also allowing sufficient airflow for plant growth. Additionally, the nets are resistant to abrasion, ensuring longevity and reliability.

By using **warp-knitted hail protection nets**, farmers and horticulturists can reduce the risk of crop loss due to hailstorms, improving yield quality and protecting valuable harvests. The nets are a cost-effective and efficient solution to safeguard against unpredictable weather events.

By adhering to **IS 17730 (Part 1): 2021**, manufacturers ensure that the hail protection nets meet quality and performance standards, offering effective and reliable protection for agricultural and horticultural applications.