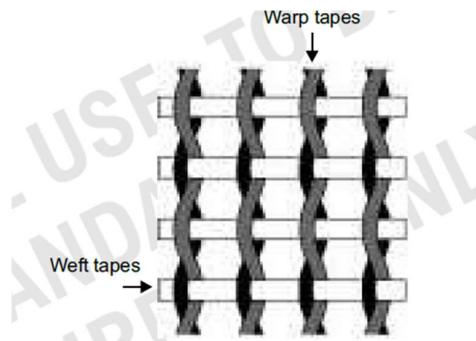


IS 16187:2014 Textiles — High Density Polyethylene (HDPE)/Polypropylene (PP) Leno Woven Sacks for Packaging and Storage of Fruits and Vegetables – Specification

High density polyethylene (HDPE)/Polypropylene (PP) **leno woven sacks**, also known as **mesh bags**, are used for packing and storage of fruits and vegetables due to their open mesh weave with high tensile, tear, and impact burst strength. The sacks also provide excellent ventilation, preventing rotting, sweating, and fungal growth, resulting in an increase in the shelf life of fruits and vegetables by approximately 50 %. The sacks are lightweight and cost-effective, with a lower cost compared to other packaging materials of similar capacity.

Leno weave is a weaving pattern in which adjacent warp tapes are twisted around consecutive weft tapes to form a spiral pair, effectively locking each weft in place.



IS 16187:2014 prescribes the constructional and requirement for average breaking strength of the fabric and bottom seam for high density polyethylene (HDPE)/polypropylene (PP) leno woven sacks for packaging and storage of fruits and vegetables. This standard covers requirement for Type 1 and Type 2 sacks having nominal holding capacities of 25 kg and 50 kg, respectively. It also prescribes method of sampling, criteria for conformity, tests and requirements for labelling and marking.

This standard was prepared to help the users and traders of leno woven bags in proper packaging and storage of fruits and vegetables.