



IS 14252 : 2015

**Textiles - High density polyethylene (HDPE)/polypropylene (PP)
woven sack for filling sand - Specification
(Second Revision)**

HDPE (High-Density Polyethylene) and PP (Polypropylene) woven sacks are highly versatile and durable packaging solutions, known for their excellent resistance to abrasion, chemicals, and moisture. These qualities make them ideal for the safe and efficient transport, storage, and handling of a wide variety of materials across multiple industries.

Sandbags, in particular, are simple to produce and easy to deploy. Due to the dense sand inside, they offer significant protection against bullets, making them a crucial tool for shielding soldiers in battlefields or during potential attacks.

The Indian Standard IS 14887 specifies the requirements for HDPE/PP woven sacks designed for filling with sand. This standard was developed based on the provisional specification No. S/6004/TC-5, "Specification for NIV HDPE Sand Sacks, Khaki," issued by the Controllerate of Quality Assurance Textiles and Clothing, Ministry of Defence, Government of India, Kanpur. It outlines manufacturing guidelines, including the use of HDPE/PP tapes that conform to IS 10146 and IS 10910. The fabric, made from tapes (thin strips), must adhere to specific density, width, and weaving guidelines. The standard also defines constructional requirements, such as dimensions, ends per decimeter, picks per decimeter, and mass, alongside performance requirements like fabric breaking strength, elongation at break, and ash content.

To ensure the reliability and durability of these sacks, a Quality Control Order (QCO) issued in April 2020 under IS 14252 mandates BIS certification. This regulation guarantees that HDPE/PP woven sacks used for sand filling meet rigorous quality standards, instilling confidence in consumers regarding their performance and durability.