



Textiles - High density polyethylene (HDPE)/polypropylene (PP) woven sacks for packaging 10 kg, 15 kg, 20 kg, 25 kg and 30 kg foodgrains – Specification

The National Food Security Act of 2013 had resulted in an immediate demand for the packing of food grains in sacks of superior quality, to avoid food grain from being wasted as a result of inferior packaging bags and to ensure that all types of food grain packaging, which differ in grain size and density, are covered in a comprehensive manner.

For the purpose of packaging sacks, it is necessary that the material used for the sacks satisfies the criteria for **food-grade materials**. Additionally, the construction of the sacks must sustain the proper level of aeration for the grains contained within. It is necessary for the sacks used for packaging to have exceptional bottom seam strength and to be **easily stackable** in order to facilitate transportation and handling.

The Indian Standard IS 16208 was published by BIS in the year 2015 to prescribe the requirement of HDPE/PP woven sacks suitable for packaging all types of foodgrains (wheat, paddy, rice, pulses, millet, etc.). This standard specifies five types of HDPE/PP woven sacks for capacities of 10 kg, 15 kg, 20 kg, 25 kg, and 30 kg. The construction particulars specified are expected to ensure **aeration of food grains**. The fabric specified in Standard is to be woven with an **anti-slip pattern** to avoid oozing of grains out of the sacks and for better stackability. This standard specifies the constructional requirements such as dimensions, ends per decimetre, picks per dm, fabric GSM, etc., along with the performance requirements like **fabric breaking strength**, elongation at break, and **bottom seam strength**.

To ensure the well-being of consumers, the standard specifies the test requirements of food grade raw material and also the marking with food-grade ink only.