

IS 17355:2020 - Agro textiles – Propylene spun bonded non-woven mulch mat for agricultural and horticultural applications - Specification

The Indian Standard IS 17355:2020 specifies requirements for polypropylene spun-bonded non-woven mulch mats used in agricultural and horticultural applications to control weed growth without chemicals. These mats, made by bonding polypropylene filaments, allow water, air, and nutrients to reach plants while blocking sunlight to prevent weed growth. The standard outlines two types based on mat density—Type 1 (minimum 50 g/m²) and Type 2 (minimum 70 g/m²). It includes specifications for dimensions, tensile strength, elongation, UV stability, color, and ash content, as well as guidelines for conditioning, testing, and marking of the product. The mats are packaged in rolls and marked with essential information, such as type, length, width, and batch details. Sampling and testing protocols ensure product conformity, including UV stability tests and ash content analysis to verify durability and composition.