



## IS 5012: 2024 Cellulose Film – Specification

Cellulose film is a thin transparent film derived from natural wood pulp and is primarily used in the packaging industries for flexible packaging as well as for pressure sensitive adhesive tapes.

The cellulose film exhibits excellent optical properties such as transparency and gloss, good physical and mechanical properties, excellent tear properties, non-toxic, and does not alter the taste and odor of the food upon contact. It is suitable for decorative packaging for flowers, gift wrapping, firecrackers, incense sticks, tea, coffee, dry food articles, confectionery items, etc.

It is chemically resistant to oils, fats, and grease and is highly permeable to water vapor with an excellent barrier to gases and aromas. The film is completely biodegradable with no disposal hazards.

The material consists of regenerated cellulose film is softened by additional agents, such as glycerin, polyethylene, glycol, urea and other suitable recognized softeners or their mixtures. The moisture-proof material consists of a base film of regenerated cellulose, suitably softened.

These are available in various grades (200, 240, 260, 300, 400 and 600) which further various coating and coloured.

Each grade of cellulose film has a particular **Weight/Grammage, Colour and Flexibility** having a fix percentage of **Humidity** after heat sealing.

The cellulose film is available in coloured form also with food grade dyes/colours.

The parameters - **Colour, Flexibility, Heat seal, Coating Continuity** and **Food Contact Materials** are explained along with the detailed test methods in the standard IS 5012: 2024 and its amendments.