



KANTA FLEX
TECHNOLOGY DECADE AHEAD



LOW DENSITY POLYETHYLENE (LDPE) FILM (BUREAU OF INDIAN STANDARD — I.S: 2508 — 1984)

Low Density Polyethylene Films are also known as L.D.P.E films are used for packing, agriculture and construction fields. The main purpose of this film is to avoid water, fluid or gas seepage to earth. It safeguards the stored material without allowing it to pass through since it is non-conductor of liquids and gases.

MATERIAL & CONSTRUCTION

The film is made out of only polyethylene resin with the density between 0.913 to 0.923 g/ml at 27 deg C. The melt flow index shall be between 0.10-to 15.0-g/10 min. The film is classified according to the optical properties, impact strength and slip having designated by three digit numerals. The film shall be uniform in color, texture and finish. It is free from any objectionable Odour and is packed in the form of rolls. The width of the film is above 12' and in long length, in order to minimize the number of joints.

PHYSICAL PROPERTIES

SL.NO.	PHYSICAL PROPERTIES	VALUES
1.	Appearance	No visual defects to be noticed
2.	Thickness Tolerance	+/- 20
3.	Odour	Free
4.	Density at 27 deg C	0.913 – 0.923 gm/cc
5.	Melt flow index	> 0.1 gm / 10 minute
6.	Carbon black content	2.5 +/- 0.5 %
7.	Carbon Black dispersion	Satisfactory
8.	Tensile strength at break	Minimum, M.D. 140 kg/cm ² Minimum, T.D. 110 kg/ cm ²
9.	Elongation at break	Minimum, M.D. 200 % Minimum, T.D. 400%
10.	High impact resistant load calculated on average thickness load 275 gm	255 gm / F 50 gf
11.	Melting Range	0.10 to 15.0 grams/ 10minutes

USAGE

The L.D.P.E. film is used in various applications like

- Effluent treatment plant
- Lagoons
- Warehouses and Trenches
- Sludge storage pit and Tunnels
- Concrete roads & Bridges
- Reservoirs and Canals
- Bio gas and Gypsum storage sump
- Water proofing for terraces, gardens, aprons and runways in airports

The L.D.P.E. films acts a barrier between the soil and the stored material and plays a major role in any kind of construction where the stored material should have a direct touch with the soil and hence forth helps in many kinds of civil structures.