

LDPE Plastic Sheets

Our plastic sheets are manufactured from Low-density Polyethylene (LDPE) materials. Produced under low-pressure conditions, they offer superior quality and exceptional stretchability-capable of extending more than 900%. These sheets are also resistant so scratch and UV radiation, making them highly suitable for manufacturing premium-grade plastic sheeting.

Recognizing the unique properties of LDPE, our company utilize a co-extrusion process in which two LDPE sheets are fused into one. This method enhances strength and durability beyond what standard plastic sheets can provide.

Technical properties of LDPE

1. Manufactured from high-quality Low-density Polyethylene
2. Widths available from 1.20 – 4.00 meters
3. Thickness ranges from 0.07 – 1.00 millimeter
4. Available in clear and black coloured variants
5. Soft, non-stick surface.

Materials Characteristics

1. Enhanced mechanical strength
2. Excellent elongation and stretchability
3. Superior impact absorption
4. High puncture resistance
5. Capable of ultra-thin manufacturing
6. Impermeable to water – prevent moisture loss or absorption in concrete
7. Weldable for seamless joining

Application

- General uses
 - o Sub-layer for concrete pouring, road construction and joint sealing.
 - Aids in moisture control and acts as a barrier to prevent contamination from soil acid, bases or organic matter.



LDPE Sheet Sub-layer installed before Concrete pouring

LDPE in GEOMEMBRANE Applications

LDPE is ideal for use in geomembrane systems, where flexibility, puncture resistance, tear strength, and weather resistance are essentials. Thickness requirement varies depending on project specifications and geographical conditions, typically ranging from 70 to 1,000 microns.

Geomembrane Functions

- Liquid containment in areas with high soil permeability (e.g., for agricultural irrigation)
- Lining for compost reservoirs to maintain optimal fermentation temperature
- Lining for landfill sites to prevent leachate from contaminating surrounding soil
- Substrate from roads and other civil engineering projects

Installation guidelines

- Overlap method: Sheets should overlap by 7 to 10 centimeters, then welded using heat
- T-Lock Installation: Use 4 T-Locks per square meter
- Welding Joint Width: Typically, 1 centimeter

Available Thickness Options

- 0.07 millimeter, Clear (Non-colored)
- 0.10 millimeter, Clear (Non-colored)
- 0.25 millimeter, Black