

Technical Data Sheet

BC Thene

Product Description

BC thene sheets are a polyethylene vapor barrier to alkalis, salts, acids and chemicals found in sub-soils. BC Thene sheet is a fully stable and waterproof polyethylene vapor barrier to alkalis, salts, acids and chemicals found in sub-soils, manufactured according to BS 312:1970 fully stable and waterproof.

Basic Use

Used as a vapour barrier and damp proof membrane in concrete slabs, floors, insulation boards shuttering , etc

For corrosion protection of water and oil pipelines

Protects from the sun, wind, rain, dust and damage.

Composition & Materials

BC

Thene sheet is an anti-corrosive and weather resistant polyethylene vapor barrier.



Types

Light pearl clear film (general purpose application).

Black opaque film (used mainly as a damp proof membrane).

Application

Sleeves for corrosion protection of water and oil pipelines.

Agricultural film for greenhouses, plastic tunnels & other agrotechniques.

Construction film used as a vapor barrier and damp proof membrane

in concrete slabs, floors, over insulation boards, shuttering etc.

Dimensions

Supplied in rolls of different lengths, widths and thicknesses.

Film Thickness: From 100 gauges (25 Microns) to 1600 gauges (400 Microns).- Film Length: up to 20 meters.

Film Width: up to 4 meters (see table 1).

Durability

It retains its physical properties and remains chemically resistant to aggressive soil organism, plant and other soil fauna as well as domestic sewage and retains its flexibility in temperatures over 80oC.

Technical specifications

Table 1- POLYETHYLENE VAPOR BARRIER THICKNESS

Millimeter	Gauge	Micron (μ)	Mill
0.05	200	50	2
0.08	320	80	3.2
0.10	400	100	4
0.15	600	150	6
0.3	1200	300	12
0.4	1600	400	16

Table 2 - Typical Performance Characteristics

Properties	Unit	Value	Test Method (ASTM)
Density at 24°C (unpigmented)	g/cc	0.923	D-1505
Dart impact	g	100	D-1709
Tear resistance	kg/cm ²	80	D-1004
Tensile strength (Longitudinal direction) Transverse direction)	kg/cm ² kg/cm ²	180 170	D-882 D-882
Elongation (Longitudinal direction) Transverse direction)	% %	230 375	D-882 D-882
Transparency	%	20	D-1746
Gloss	45	40	D-2457
Haze	%	9.0	D-1003
Heat seal range	°C	115-175	-
Moisture Loss	g/cm ²	0.055	C-156