



CONSTRUCTION FILMS

PLASTICKAR, JULY 2021



CONSTRUCTION FILMS

PE Films are widely used in construction and building industries such as:

- **Wide PE film** for general purpose.
- **Polyethylene Encasement** (Tubular PE Protection) which are used in construction industries to protect underground pipes in corrosive soils.
- **Foundation film** or concrete films.
- **Vapor Barrier film** which are mainly used as a thermal and moisture insulation for the building foundation, in order to prevent the quick evaporation of concrete moisture and allow the concrete to harden and gain the required strength.
- **PE Geo-membrane** for Pool and Asphalt Insulation, used as a protection layer to prevent salt (generally found in saline soil) and moisture penetration.



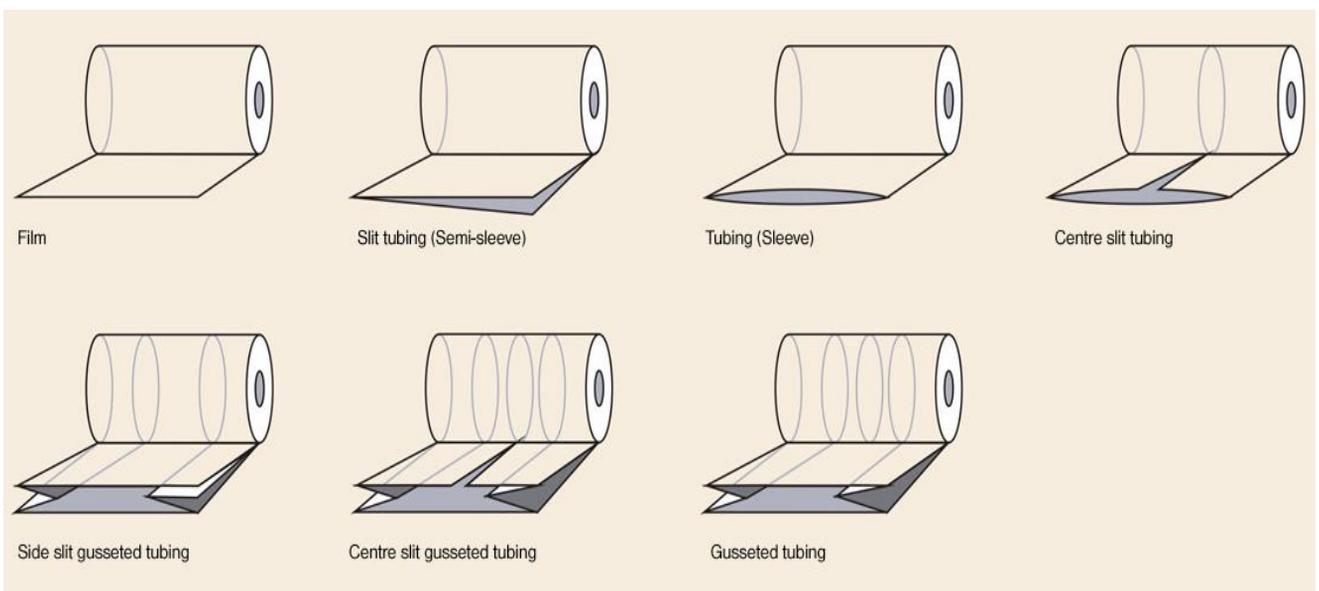
WIDE PE FILM (NYLON)

Wide Film is referred to PE films which are produced in widths from **1 to 10** meters, and are used for variety of applications.

Typical applications of this film includes: industrial workshops, construction projects, temporary packing of furniture and appliances, bedding for fruit and vegetable markets, protecting trees against freeze and covering the load (under and over) in trucks and train wagons to prevent dust, rain and moisture penetration.

Based on the customer's request we are able to manufacture this films in the forms of, **Single layer (flat)** up to 420 cm wide, Double layer **tubing (sleeve)** up to 840 cm wide, Double layer **slit tubing (semi-sleeve)** and Double layer **center slit tubing (unfolded)**. We also have the ability to produce **gusseted** rolls up to 10 meters in width.

The roll types are illustrated in the following figure:



Product Name	Wide Film (Nylon)
Other Names	Wide Nylon, Nylon, PE Film
Application	<ul style="list-style-type: none"> ▪ Industrial workshops ▪ Construction projects ▪ Temporary packing of furniture and appliances ▪ Bedding for fruit and vegetable markets ▪ Protecting trees against freezing ▪ Covering the load (under and over) in trucks and train wagons to prevent dust, rain and moisture penetration ▪ Covering the furniture and appliances before painting the house or office
Features	<ul style="list-style-type: none"> ▪ Flexible, strong and durable ▪ Prevention of moisture penetration ▪ Prevention of dust penetration ▪ Highly recyclable
Thickness	Typically, 80 to 300 microns (based on the customer's request)
Width	Typically, 1 to 10 meters (based on the customer's request)
Color	Transparent, Lime, etc. (based on the customer's request)
Packaging	Rolls wrapped with PE film, inner core diameter is 76 mm, the core could be further supported by plastic lids on both ends of the roll.



POLYETHYLENE ENCASEMENT

This product is a low density (LDPE) **co-extruded** film with an approximate thickness of 200 microns and it is used as a supplementary cover for ductile iron, metal or plastic pipes. This film is known as an inexpensive **encasement (tubular protection)** for underground pipelines against corrosive soils and it is mostly applied in road and construction industries.

Since these films are mostly used for underground pipes, they should be manufactured according to ISO8180 standard and in order to achieve high resistance and durability, certain additives are required to be added while producing the film.

Typically, some soil moisture penetrates into the casing, which initially can cause corrosive properties, however, the oxygen content under the casing will run out soon and the oxidation process stops quickly.

It is recommended to use this film in the following cases:

- Soil with low electrical resistivity, which indicates the high corrosive properties.
- Soils with high levels of sulfates, chlorides or bacterial activity.
- Areas with severe dust and storms.



Product Name	Polyethylene Encasement
Other Names	Pipe Protection Film, Pipe Coating, Pipe Cover
Application	<ul style="list-style-type: none"> ▪ Covering underground pipes in corrosive soil
Features	<ul style="list-style-type: none"> ▪ Flexible, strong and durable ▪ Resistance against puncture, tear and cracks ▪ Resistance against extreme weather and corrosion ▪ Resistance to the attack of rodents and insects ▪ Prevention of moisture and chemical material penetration ▪ Easy transfer and installation ▪ No requirement for maintenance ▪ Affordable price ▪ Recyclable
Thickness	Typically, 200 to 400 microns (based on the customer's request)
Width	Typically, 8 to 34 cm (based on the customer's request)
Color	Black, Transparent, Black/Silver (multi-color) (based on the customer's request)
Packaging	Rolls wrapped with PE film, inner core diameter is 76 mm, the core could be further supported by plastic lids on both ends of the roll.



FOUNDATION FILMS

Construction Foundation or **Concrete Pouring Films** are typically produced from recycled Polyethylene (PE), and are manufactured in black, gray or green color rolls with different sizes and thicknesses. For maximum resistance against ambient conditions, it is recommended to use top quality transparent foundation films which are manufactured from pure virgin material.

Product Name	Foundation Film
Other Names	Concrete pouring film, Construction film
Application	At the time of foundation construction; laid on the foundation soil as a thermal and moisture insulation, prior to the concrete pouring process.
Features	<ul style="list-style-type: none"> ▪ Affordable price ▪ Proper and uniform coverage ▪ Prevention of moisture penetration ▪ Easy installation ▪ No requirement for maintenance
Thickness	Typically, 70 to 200 microns (based on the customer's request)
Width	Typically, 40 cm to 10 meters (based on the customer's request)
Color	Gray, Green, Black, Transparent (based on the customer's request)
Packaging	Rolls wrapped with PE film, inner core diameter is 76 mm, the core could be further supported by plastic lids on both ends of the roll.



VAPOR BARRIER FILM

Construction Vapor Barrier Films are produced from a combination of LDPE, HDPE and necessary additives and are manufactured in high thickness to **prevent the quick evaporation of concrete moisture** and also to control radon gas, methane, and other soil gases or contaminants from penetrating into the concrete mass. This film which is produced from best selected virgin material, should be laid on the foundation soil prior to concrete pouring process or placing concrete slabs. Other additives such as **flame retardants** could be added based on customer's request.

Product Name	Vapor Barrier (PE) Film
Other Names	Concrete pouring film, Vapor barrier, Construction film (rolls), Foundation film
Application	<ul style="list-style-type: none"> Construction and building projects; laid on the foundation soil prior to concrete pouring process or placing concrete slabs
Features	<ul style="list-style-type: none"> Flexible, strong and durable Resistance against puncture, tear and cracks Affordable price Proper and uniform coverage Prevention of moisture penetration Prevention of chemical material penetration Easy installation No requirement for maintenance
Thickness	Typically, 100 to 500 microns (based on the customer's request)
Width	Typically, 1 to 10 meters (based on the customer's request)
Color	Blue (or based on the customer's request)
Packaging	Rolls wrapped with PE film, inner core diameter is 76 mm, the core could be further supported by plastic lids on both ends of the roll.



PE GEOMEMBRANE FILM

Pool and Asphalt Insulation Films are produced from a combination of LDPE, HDPE and other necessary additives. This product is manufactured in high thickness and typically in black color. This film is used as a protection layer to prevent soil salts (generally found in saline soil) from penetrating into asphalt pavement. The other application is retention of water, including the lining of swimming pools, reservoirs, basins, surface impoundments, garden ponds and artificial streams in parks and gardens.



Product Name	Pool and Asphalt Insulation (PE) Film
Other Names	Pool Insulation Film, PE Geo-membrane, Asphalt Insulation, Bitumen Insulation Membrane, Evaporation Barrier, Basin (Pond) Liner, Pool and Asphalt Insulation Film
Application	<ul style="list-style-type: none"> ▪ Retention of water by lining swimming pools, water and waste water streams, fish farming ponds, etc. ▪ Prevention of soil salts (generally found in saline soil) from penetrating into asphalt pavement.
Features	<ul style="list-style-type: none"> ▪ Flexible, strong and durable ▪ Resistance against puncture, tear and cracks ▪ Resistance to the attack of rodents and insects ▪ Affordable price ▪ Proper and uniform coverage ▪ Prevention of moisture penetration ▪ Prevention of chemical material penetration ▪ Easy installation
Thickness	Typically, 200 to 500 microns (based on the customer's request)
Width	Typically, 2 to 10 meters (based on the customer's request)
Color	Black (or based on the customer's request)
Packaging	Rolls wrapped with PE film, inner core diameter is 76 mm, the core (so called bobbin) could be further supported by plastic lids on both ends of the roll



پلاستیک‌کار
PlasticKar
سهامی خاص (P.J.S)



Add: Unit 6, Eram Alley, Vanak St., Tehran 1994733131, Iran

T: (+98 21) 8879 08 27-8 | F: (+98 21) 8888 07 35

www.plastickarco.com | info@plastickarco.com