



*Innovation Separates
Those Who Lead From Those Who Follow*





About Us

Al Quds for Plastic is one of the leading companies in the field of manufacturing of agricultural plastic film and packaging Plastic film; our factory is based in Egypt – Sadat City – 6th Industrial Zone.

Al Quds for Plastic aims at manufacturing the best ever agricultural plastic products and packaging requirements, as to be always one of the forefront manufacturers of plastic industry both in Egypt and worldwide through exporting our exceptional high-quality products.



We are always keen to meet the needs of the end users and getting their satisfaction by being in direct contact with them through our R&D professional team, using our highest and continuous up to date technologies and latest machineries.

We believe that combining commercial experiences with cutting edge knowledge developed in Partnership with some of the world's foremost crop and horticultural scientists we can make it possible. Therefore, at Al Quds for Plastic we don't believe that your crop cover should be just like everyone else but it should be design as the right cover for you and set about designing all the features / properties of the film that make the cover your own based on your location and unique growing system for your crop.



And during our long technical and commercial experience, we work hard on the sustainability of the development of our technical crew and all staff of Al Quds, in order to keep our products strongly competitive in local, Arabic, African, and European markets.

Collaboration with Lancaster University

Finding the latest technology in plastic film industry is always our concern to meet our customers special requirements. To that end, we recently approved collaboration between Al-Quds for plastic and Lancaster University UK in R&D application through the integration of our equipment technology and applied scientific research technology as pathways for resources use efficiency.



The agreement aims to boost joint cooperation between Lancaster University and our company. Under this collaboration all our clients will benefit from our company expertise in the fields of film technology to see there is no one better placed to help you to make decision that is right for your needs.

Al Quds for Plastic has an important role to play in the efforts to achieve sustainable development in agriculture and this collaboration is part of these efforts and a step towards the best plastic film industry as we always promised.



Why AI Quds for Plastic?

- We're doing our highest and continuous up to date technical support in order to provide our customers the best ever solution for their demands to match perfectly with any climate, any crop, at any region.
- AI Quds strategy concentrates on the highest technology and the latest innovative plastic machines with the strictest quality standards.
- We design plastic covers with sustainable and eco-friendly features to exceed our customers' expectations.
- Flexibility of requirements in manufacturing that suits your crop and location needs.
- High level of after-sale service and handling of customers comments.



AI Quds “Greenhouse Covers” Cutting-Edge Technology

5 Layers technology means that we can build in the required film characteristics layer upon layer within a film. For example, we may need to diffuse light or add thermic or anti- condensation properties to a film to meet the needs of particular crop in a particular environment. Therefore our 5 layers extruding technology allows us to manufacture with effecting properties by using the very latest manufacturing technologies and taking advantages of our unique ability to utilize all 5 layers of the film. With 5 Layers Technology wide widths line we only ever source the highest quality raw materials coupled with industry leading quality control, means that we manufacture amazing tough films with highest possible mechanical strength and durability.



Plastic Films for Agricultural Applications

Greenhouses Covers

The main purpose of the greenhouse coverings is to create a controlled internal environment regardless of the external environment. Better environmental control leads to better crop yield and quality.

Greenhouses provide ideal environment for the growth of plants (vegetables, fruits and flowers) protecting them against external effects such as rain, wind and cold weather and accelerate the growth of the plant with balanced micro-climate environmental conditions.

All our products are designed at our R&D lab side by side with world leading plant and polymer scientists at Lancaster University in the UK. once we understand the cover your crops specifically needs we set about designing and manufacturing a cover that manipulates the way in your greenhouse or tunnel in just right way to deliver everything your crop needs.



TYPES OF AI QUDS GREENHOUSES COVERS

HURGHADA FILM

For both greenhouse and tunnel Production. We can also design in a wide variety of additional properties to suit your exact needs. So, you see there's absolutely nothing standard about that film. With many years of experience in agricultural plastic film production and investments in the latest technology 5 layered co-extrusion machinery enable us to manufacture high quality greenhouse films wide up to 16 meters.

Hurghada Film is built on a formulation that we have spent several years developing with researchers, developers (R&D) and grower partners around the world. It was designed from the ground up to be the ultimate generalist, ensuring enviable yields and quality across the vast range of global protected crops.

So, once you've decided that Hurghada Film is the right cover for you we set about designing all the other features that make the cover your own based on your location and unique growing system.



We'll help you decide whether you need a clear or diffusing cover. If you chose the latter then we'll manufacture it with just the right level of diffusion for the exact location you're growing your crop.

We can also engineer Hurghada Film to be super thermic which means there's no better cover to protect your crop from early season frost and smooth out differences in day and night time temperatures to reduce crop stress.



We at Al-Quds For Plastic working with our Partners Lancaster University in UK light is our specialty.

We remain at the forefront of research in understanding how manipulating light in the growing environment can be commercially exploited in global horticulture and we continue to build that knowledge through some amazing projects in Europe, the U.S., N Africa and Australia. Couple this knowledge with previously unheard-of flexibility in manufacturing and you see there's no one better placed to help make the decision that's right for your crop.





LUXOR FILM

We helped pioneer the science of how Luxor Film can be used to produce some truly amazing crop benefits which is why we created Luxor Film. This product can be manufactured as a clear or diffused cover for both greenhouse and tunnel production.



Luxor Film is a truly amazing crop cover, the result of over a decades worth of global research and development with a very wide range of edible and non-edible crops. This cover allows just the right amount of the specific sunlight to enter the growing environment and in doing so produces some remarkable results for our customers. That's because this type of light can force improvements in crop hardiness and strength, optimized root development as well as incredible crop uniformity and yields.

In edible crops we developed Luxor Film to deliver earlier harvesting and higher yields, deliciously tasting produce with more vibrant colors and optimum shelf-life. In non-edible crops Luxor Film can produce much hardier and uniform crops which are quite simply visually stunning.

Luxor Film is built on the very latest formulations and to the highest possible specifications but that's not the whole story. For decades standard cover products intentionally shaded specific crops from all wavelength of light because it was thought to be damaging. However, alongside our partners in R&D in Lancaster University (UK) and with growers around the world growing amazing crops in both low and high light, the films have begun overturning that thinking in global horticulture and so there is no one better to help you understand how to get the very best out of this type of cover.

Once you've settled on Luxor Film, we set about designing all the other features that make the cover your own based on your location and unique growing system. We'll help you decide whether you need a clear or diffusing cover. If you chose the latter then we'll manufacture it with just the right level of diffusion for the exact location you're growing your crop. Then we'll work with you to understand just exactly how thermic your cover needs to be able to help smooth out differences in day and night time temperatures to reduce crop stress. So, you see there really is no one better placed to help you make the decision that's right for your crop.



ALEXANDRIA FILM

Alexandria Film is our industry leading product that can be manufactured as a clear or diffused cover for both greenhouse and tunnel production. We can also design in a wide variety of additional properties to suit your exact needs...!

Alexandria Film is built on a formulation that we have spent several years with developing with researchers and grower partners, from Lancaster University and around the world.

Once you've settled, we set about designing all the other features that make the cover your own based on your location and unique growing system. We'll help you decide whether you need a clear or diffusing cover. If you chose the latter then we will manufacture it with just the right level of diffusion for the exact location you're growing your crop. Then we'll work with you to understand just exactly how thermic your cover needs to help smooth out differences in day and night time temperatures to reduce crop stress.



Alexandria Film can be used to produce truly stunning results across a wide range of crops and it's also highly effective in controlling economically important pests and diseases without the need for traditional chemical pesticides. Alexandria Film achieve this by blocking The light pests require to see (in the case of insect pests and in the case of disease pathogens) from entering the growing environment.

Here at Al Quds for Plastic Light is our specialty, with cooperation with our partner in Lancaster, we remain at the forefront of scientific research in understanding how manipulating light in the growing environment can be commercially exploited in global horticulture and we continue to build that knowledge through some amazing projects around the world.

DIFFUSION, HOW YOUR CROP NEEDS IT

Recently most of manufacturers will tell you that the higher rate of diffusion the better and that one haze level fits all but how can that be the case both for growers in Spain, Southern and Northern Scotland? Of course, it's not. Through cutting edge science and exhaustive commercial trials, we've developed unique models which predict just how much diffusion you need and we then manufacturing your film accordingly. Unlike some other diffusing films on the market today all our diffusing properties are guarantee for the life of the films.

TEMPERATURE CONTROL, YOUR WAY

You won't be surprised to learn we tailor the amount of thermicity to your exact needs based on the crop you are growing at the location you're growing it in. We do this using our unique climate models, 5 layers extruding technology and advanced thermic additives together they allow us to smooth day and night temperature changes so as to better protect your crop, reduce both crop stress and heating costs.



ANTI-DRIP & ANTI-MIST PERFECTLY IN BALANCE

All our products offer the option of built-in anti-drip properties which significantly help to reduce the risk of crop fungal diseases such as Downy Mildew and Botrytis cinerea providing the film is installed correctly, water will condense uniformly across the film's surface rather than as droplets and both light loss and the risk of water falling on to the crop below is much reduced. All our anti-drip films are also manufactured with a perfectly balanced anti-mist which works effectively together to optimize the growing environment. Our anti-mist forms at dawn and dusk by very precisely managing the greenhouse environment to reduce its formation.

ANTI-DUST

We can include a dust-reducing additive to our cover films. In this method, the upper layer of the cover film is especially smooth and this significantly reduces the accumulation of dust.



UV STABILISATION FOR EVERY LOCATION

Some manufacturers produce their films with just enough UV stabiliser for the location where they'll be used. We have a somewhat different philosophy. We believe each and every crop is worth protecting for as long as we can. That's why we dose all our products with a UV stabilisation system designed to last at least for the warranty of the film at your latitude using our very own blend developed over three decades. This unique stabiliser protects our products from breakdown by UV light or high temperature. We never take risks with your crop.

HIGHLY RESISTANT TO AGROCHEMICALS

Agrochemicals can interact with the UV stabilising systems and can deactivate them. Our film is designed and manufactured for you either as a greenhouse cover or as a tunnel cover as highly resistant to chemicals containing Sulphur, Chlorine, Iron and others that are widely used as agrochemicals.





THICKNESS OF GREENHOUSE COVERS ACCORDING TO LIFETIME

- One year film (12 Months): 110 - 120 micron
- Two years film (24 Months): 140 - 150 micron
- Three years film (36 Months) :180 - 200 micron
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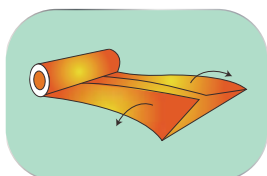
WIDTH

Our products can be considered (specified) as super standard as they comply with the urgent need of the long width up to 16 M

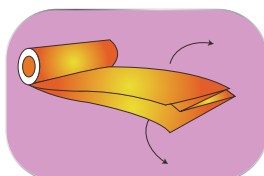
Folding Types of Greenhouses Covers

Our film folding mechanism is set up to make the rolls easier for transportation and storage. Our machine can make various types of folding as double C , double W and multiple W in order to minimise the width of films to suite the cutting process and for easier cladding.

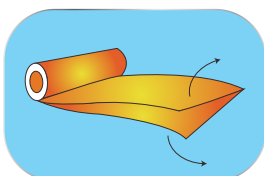
C Folding



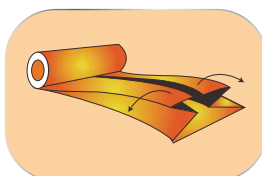
Folding Single W



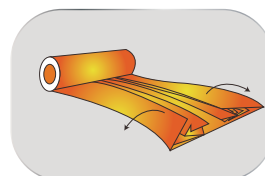
Folding Half Tube



Folding Double W



Double W with C folding





Soil Solarization Film

Soil solarization is an important practice for farmers which is used commercially in areas with high solar radiation and air temperature during the summer. In this technique, clear plastic films are used to increase soil temperature in the longest period of the daylight and in the moments the temperature is the highest to manage soil-borne disease such as insects, diseases, nematodes, fungi, and weeds. This application should be kept about 6 weeks on the surface of the soil. (In some diseases this period lasts for 10 weeks) Soil-borne diseases, weeds, and nematodes have been partially controlled by soil-applied pesticides, including methyl bromide, chloropicrin, and methane. By using soil solarization that will help to reduce the use of such chemicals and that will improve food safety.

Benefits of Soil Solarization Film

Maximum soil heating occurs when the plastic is close to the soil. Therefore, it is important that the area to be treated is levelled and free of weeds, plants, debris, and large clods which would raise the plastic off the ground. The area should be treated with a rototiller or by disking or turned over by hand and raked until smooth to provide an even surface, this will help water penetrate and moisten the soil Profile.

Soil must be moist for maximum effect. Moisture not only makes organisms more sensitive to heat, but it also conducts heat faster and deeper into the soil. Soil can be moistened by pre-irrigation, by drip or furrow irrigation, immediately after which the plastic should be applied over the soil. Irrigation under the plastic usually controls pests slightly faster and to a greater extent than when irrigation is done before the plastic is laid.

Al-Quds Solarisation film has high mechanical properties to withstand maximum stress during installation. It's available with different microns up to width of 8 Meter, and customized length.

Benefits of Soil Solarisation:

- Disease control.
- Weed control.
- Nematode control.
- Increase plant growth response.

MULCH FILM

In general, the use of Mulch in agriculture is a key factor in promoting plant growth and increasing the quantity of crop. Mulch plastic is one type of plastic used in agriculture where the film is placed on the ground so that the plant can be applied through it.

Al-Quds Mulch is available in different colors for different purposes such as black, transparent, yellow, and double-face, which comes in two colors such as silver / black, white / black, brown / black. Also available in different sizes ranging from 70 cm to 180 cm wide and 20 µm to 50 µm thickness.

Banana Protection Bags:

During the winter months, the banana protection bags are necessarily used to cover the banana bunches. To guarantee the ideal temperature and humidity, this perfectly leads to rapid growth for each cluster with a perfect symmetry in size and color. They are used also to keep the banana clusters unreachable by any insects and the desert harmful sun blight.



Seedling Bags

It is a special black bag manufactured of polyethylene, in which the seedlings are stored until they are transferred to the place where it will be planted. Compared to other methods, seedling bags are effective and inexpensive methods that help stimulate root growth and increase the number of plants in square feet. Al-Quds seedling bags are available in different sizes to suit all your needs. Bags can also be perforated to suit stages of seedlings growth.

Al Quds for PLASTIC FILMS FOR PACKING APPLICATIONS

SHRINK WRAPPING FILM:

Rolls and Bags are available at various sizes in our portfolio (different lengths and widths). Made of Low-density polyethylene and used for shrink packing, such as packing mineral water, soda bottles, juices and dairy products and other food cans.



Shopping Bags

Available at different lengths, widths and thicknesses made of High- and Low-density polyethylene. used by industrial companies for packing products according to customers specs or by super markets and shops for packing goods. Printed bags up to 6 colors and manufactured using the latest printing technology on Bags and rolls of different dimensions (lengths, widths, and thickness).





Our Quality Management System (QMS)

Al-Quds for Plastic Technologies is committed to offering the very best customer service, support, and overall value to our customers through our own design of high-quality plastic covers with sustainable and eco-friendly features to exceed our customers' expectations. Our (QMS) consists of procedures and work instructions of our certifications ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 to ensure product integrity, reliability, and on-time delivery to meet our customers' specifications and requirements.

Our recommendation to your crop's cover needs is built on various R&D trials of different species at our partner Arid Agritec - Lancaster University field station through a continued effort to improve our products in view of your crop needs.



Laboratory Equipment:

UV-VIS:

This device is used to measure the wavelengths of the window ultraviolet rays and measuring ultraviolet rays entering the greenhouse with the possibility of controlling the ratio through the additives by plant type and location.



QUV:

The QUV device is used to test the film's durability. It includes lamps that emit an aggressive radiation in the ultra violet range (UV range), to simulating sun exposure in a short time.



FT-IR spectrometer:

It is the latest equipment in Egypt and the region and works with infrared to measure both thermicity index and UV content at plastic film.



Elongation and Strength:

The Extensometer is used to measure the maximum load need to film break and the film strain at break. The specimen's dimensions, test conditions and test procedure are according the international standards (ASTM, ISO).



Dart Falling Impact:

This method is used to determine the energy that cause film fail under specified conditions. This energy is expressed in term of weight of the missile falling from specified high. The test is carried according to ASTM D1709-85.



TEAR

The Elmendorf Tear is used to measure the maximum tear resistance for polyethylene film. The specimens dimensions, test conditions and test procedure are according the international standards (ASTM, ISO).



Haze:

The Haze device is used to test optical properties for film (transmission - diffusion) ASTM 1003



Social Responsibility

Al-Quds for plastic is committed to high standards of ethical, social and environmental responsibility. The aim is to achieve sustainability in quality products that are required for the demotic and international markets. We have clear focus on maximising our efficiency to improve our operational process to reduce the risk impact on environment and health and safety of our workers.





Case Studies

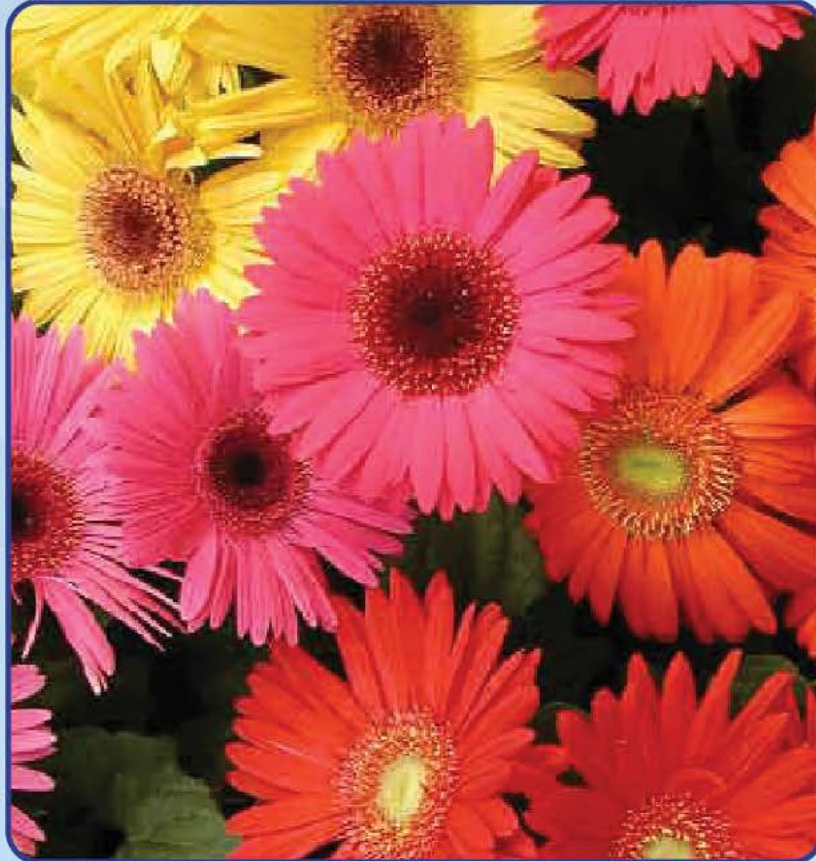
Our recommendation to your crop's cover needs is built on various R&D trials of different species at our partner Arid Agritech field station. There's no substitute for seeing with our own eyes. That's why at Al Quds for Plastic we spend every minute we can with our customers; talking to them face to face on their farms, understanding the requirements they have for growing their businesses and then working side-by-side with them to help deliver unrivaled success.

We work with growers of every size; from those growing amazing produce under single span tunnels right up to the very largest scale multi-hectare projects that deliver year-round produce into the global, fresh produce export markets. We do this because we believe that knowledge and wisdom can be found at every scale and because although there's nothing, we like more than sharing our knowledge with our customers we also know that there's always something new to learn.

As you'd expect from Al Quds, we start by asking you lots of questions about your crop, the systems you use to grow it and how you'd like to make it even better. But that's just the beginning. We'll then look at local climatic conditions to better understand the environment you're growing in and use all that.

We can share just some of the success stories we've enjoyed with our partners. If you'd like to know more talk to us about what you want and where, our simple promise is that we will do everything we can get the light right for you and your crops, wherever you are.





6th industrial zone, Sadat City, Egypt ☎ +2 048 26 303 77 ☎ +2 048 26 303 78 📠 +2 048 26 303 79

@ info@alqudsplastic.com

f /AlQudsForPlastic

🐦 /AlQudsPlastic

🌐 www.alqudsplastic.com