

Anti Fog Films

Anti-fog films are films with proprietary agent that keeps any product free from condensation or grease. These are modified films that have high affinity for water. The condensed water forms a continuous thin layer of water over the entire surface. The film should be installed so that water can flow without interruption down to the edge of the film.



Working of anti fog films

Due to anti-fog films, water is able to drain more evenly and flow to the lowest point. Water may even be able to flow over wrinkles that would normally be a prime location for dripping. It reduces number of spots where dripping occurs. Thin layer of water also acts as an infrared absorber.

These films reduce the fogging due to the improved drainage resulting in lower humidity but they are not intended to prevent it water will always condense on the film surface if there is moisture in the green house atmosphere and outside temperature is cold enough. Condensation will be increased if the relative humidity is high. Ventilation or heating is necessary to remove moisture from the green house. An anti fog film will only change the way condensation moves or accumulates on the greenhouse cover.

Anti fog films and packaging

The anti-fog film for packaging are made from grades of polyethylene, which retain heat quite well in a greenhouse. There is a temperature lift because of the increased light transmitted and because the water layer on the film surface also adds to the heat retaining properties. In the process of manufacturing a surfactant is added to the plastic. The surfactant migrates to the surface with time and acts to increase the film affinity for water.

These films are widely used in packaging of automotive parts, electronics and food. Anti-fog films provide an approach to extend shelf life and control aging of the products. Applications for anti-fog films include modified atmosphere packaging for cheese, processed meats, lunch kits, fresh pasta, and other case-ready prepared foods. These films are used to produce different packaging products like

- Packaging pouch
- Packaging bags
- Food Packaging Laminates
- Dairy Packaging Products etc.