

# With Klerk's AC Technology

## K50 IR-AC

IR = Infrared  
AC = Anti-Condensate

Without  
Klerk's AC

Photo provided  
courtesy of B & H  
Flowers

### Klerk's Anti-Condensation Process:

- Our AC is patented, developed in partnership with Merck Labs
- We special order our resin formulations with the AC actually in the resin pellets when we buy them, before they ever go into the extruder. The AC is not an additive added in the extrusion process.
- This AC bonds much tighter with our plastic due to the molecular structure of both our plastic and the AC compound. The AC compound was specifically designed with the molecular structure of our plastic in mind.

What does all this chemical jargon mean? It means our AC compound does not migrate to the surface as fast, and holds in the plastic longer. It means our AC is considered by many to be the longest lasting of all major brands on the market. It cost more to buy resin with AC in it; it is cheaper to use an additive process at extrusion. Our AC cost more, but it lasts longer. When drops form, you don't get as much short wave IR to heat up your house, and wet leaves stay colder. Why pay for a thermal AC film, if the AC wears out early? You're not only losing the AC, you're losing heat too! When you figure the "cost per year" as opposed to the initial cost, we provide a great value. As the saying goes, "you get what you pay for".

Some other factors to consider on our thermal AC film:

- Superior **diffusion** rates over other films. This gives you better lower leaf growth, compact growth, and less growth regulator usage. Klerk's diffuses close to 60% of the total light that is transmitted, one of the best rates available in additive films.
- Superior **thermal "U" factor rating** means we hold heat at night longer. We "retard" long IR wavelengths better, and your heaters cycle less at night. You use less gas, and save money. Some "thermal" films don't even have a themicity rating of 20 or under. Technically speaking, a film is not considered a real thermal film if the "U" factor isn't 20 or below. Klerk's is 17.3, one of the best in the business.
- Superior **tensile strength** (tear and stretch measurements). We are less likely to tear during wind storms and installations