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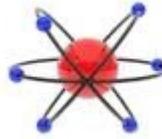
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March 6, 2013



## Ionized Air Treatment Controls Contamination, Dust & Particles

Plastics have a natural tendency to build a static charge that can often attract undesirable particles, dust and other contaminants. The use of a clean environment room, clean workstation or laminar airflow workstation does not insure that the plastic parts will remain clean and particle free. There have been many instances of critical parts, like contact lenses and reflectors, becoming contaminated due to a static charge attracting dust, particles and other contaminants. This contamination can occur immediately after the manufacturing process or be delayed. Yield losses can be a major negative result.

We may have a simple solution for such problems. Clean, dry, "ionized air," which is allowed to flow across the surfaces of plastic parts or components, will discharge the static. This will allow the plastic parts to shed the unwanted particles and make them much less likely to attract particles later. Added benefits can be realized from ionized air treatment. Parts are often easier and quicker to assemble, reflective plated parts will be more defect free, clear lenses show less visual evidence of contaminants, parts may not need second operation cleaning, and parts requiring second operation coating or vacuum metalization will likely be better parts.

It is vitally important that the compressed air is thoroughly filtered, dried and purified through a [Hankison HMM & SweepSaver Series Modular Membrane Compressed Air Dryer](#) or similar system, then ionized at the exhaust port. This insures that all moisture, compressor lubricant, dust, rust, pipe scale and other contaminants are removed.

Ultimately this type of air treatment system insures that your parts stay as clean as possible for as long as possible. There is an added benefit when we have an operator at the press running your parts. This "ionized air" treatment requires an operator to handle the application and is at no charge, when we already have an operator at the molding press. If your parts require a machine operator to remove them from the mold, inspect, de-gate or pack the parts, then that operator can usually treat the parts with the ionized air in the same molding cycle time.

Simply add the treatment requirement to your 2D drawing notes and we will include it in our service. Your notes need only state, "Parts to be post-molding treated with clean, dry, ionized air for contamination control."

