The Secret of Perfect Quality Processing – Thorough Drying of Resins and Engineering Polymers

Polymer Industry: An Overview
Polymer is a promising growth industry in India. India is currently the third largest consumer of polymers, after China and US, with a share of 5.7% of world market in 2011. Because of the useful properties of polymeric materials, they play an essential and ubiquitous role in everyday life.

Solid Technology for Infinite Opportunities
Vinit Performance Polymers Pvt. Ltd. is a specialty company engaged in conversion of new generation engineering plastic into stock shapes used for machining of engineering components performing under demanding conditions of load, friction, wear, thermal / electrical insulation and corrosive environment. Their products have been extensively used by industry across manufacturing segments that include Machine Building, Textile, Transportation, Food and Pharma, Medical, Energy, Defence, etc.
Continued Confidence in Relationship

It was Vinit Polymers uncompromising stance towards quality and reliability that brought Bry-Air into the picture. On discovering that there was deterioration in quality of their polymers extruded finished product because of humidity and moisture content of polymer, they decided to go for a dehumidifying dryer. On screening the market with the objective of sourcing the best equipment among available options, they found Bry-Air to be the most suitable with good local support from technically competent team. Their decision was influenced by their earlier experience of product performance and reliability of service. Bry-Air has been associated with VPPPL since 1995.

Moisture Problems in Engineering Polymers

“Our Mumbai operation is located in a geographic area with high humidity for almost seven to eight months in a year. Many of the raw materials, that we use, are either hygroscopic or have moisture content not suitable for achieving desirable mechanical properties in the extruded stock shapes”, said Mr. Hiten Bheda who is a US trained engineer having over two decades of experience in processing of engineering plastics.

It is crucial to use dry material for conversion in view of its end use which demands properties as per specified standards like ASTM or DIN.

Typical issues that are faced, if drying of polymers is inconsistent

- Blow/pin holes in the product
- Reduction in mechanical / electrical strength

About Bry-Air Systems

Bry-Air Systems a division of Bry-Air (Asia) has been catering to Drying, Conveying, Blending, Heating & Cooling and Mould Dehumidification needs of the plastic processors under one roof.

Bry-Air Products are mainly in injection moulding, blow moulding and extrusion segments of the plastics industry. The company enjoys fine return from excellent engineering product performance and service support.


Problem Solved with **Bry-Air**

It is not only important to dry the material being processed to a specific level but also to ensure that the process is consistent, batch by batch.

Bry-Air has installed New Honey Comb Resin Dryers to control dewpoint and temperature at VPPPL. These dryers are capable of removing moisture from the Polymer in granular form. Bry-Air Resin Dryers incorporate the “BryWheel” desiccant rotor specially crafted for very low dewpoint up to (-) 45°C. The rotor technology has helped VPPPL to:

- Save energy
- Reduce product rejection


New Bry-Air Honeycomb Resin Dryer recently installed in Vinit Performance Polymers Pvt. Ltd.