

**T**essy Plastics Corporation is a custom plastics injection molder headquartered in Elbrige, New York (USA). The company manufactures products for the medical, automotive and electronic industries, amongst others. Beside the plant in New York, Tessy Plastics Corporation has facilities in Virginia and China. The facility in Central New York

houses a white room and a clean room, with post molding, engineering, design and tool building capabilities.

In order to be able to monitor the operation of plastic air dryers, Tessy Plastics use two Vaisala DM70 Hand-Held Dewpoint Meters. The DM70 measures dewpoint accurately in a wide measurement range, which is important in this application.

The Advanced Manufacturing Facility Maintenance Supervisor, Todd Eaton, who is responsible for the maintenance of the plant production machinery, plant facilities, plant engineering and process improvement, stresses that the plastic dryers must operate with dewpoints below -40°F (-40°C) continuously for proper plastic drying. "Since the first DM70 unit was purchased in January 2002, additional instruments have been installed in our plant and in the drying systems," remarks Mr. Eaton.

The plant is also equipped with a DMT242 Dewpoint Transmitter that was purchased to upgrade one of the dryers. To monitor a dehumidification unit, a Vaisala DMP248 Dewpoint Transmitter is used. Moreover, a HMP233 with a radiation shield is used to monitor outside conditions, measuring the wet bulb and enthalpy of outside air. This instrument allows the maximization of free cooling potential using outside air. Additionally, the HVAC system at the plant is fitted with HMW40s that were recently installed.

Todd Eaton finds that Vaisala products offer excellent accuracy and repeatability. Moreover, the ability to be interfaced with PCs is important. "The instruments allow the recording and tracking of dewpoints and other measurements, which in turn allows us to operate our equipment more effectively and efficiently," Mr. Eaton explains. Vaisala instruments have performed very well and proven excellent for the company. ●

## Precision plastic injection moulding requires **Accurate Monitoring of Plastic Drying Process**

In plastic production plants, dewpoint measurement is essential for monitoring the drying process. Tessy Plastics Corporation's state-of-the-art facilities have been equipped with Vaisala dewpoint measurement instruments for their drying units, with Vaisala technology also relied upon to cater for other measurement needs in their facility.



*At Tessy Plastics, Todd Eaton uses Vaisala DM70 Hand-Held Dewpoint Meters to monitor the plastic dryers.*