

## High Chemical Safety Technologies, Inc. (CSTI) Selects Vycom's Thermax for International Semiconductor Equipment



Chemical Safety Technologies, Inc. (CSTI) of San Jose, CA, a global leader in the design and manufacture of chemical dispense systems and process benches, has selected Vycom's Thermax PVC material for wet bench equipment for the European semiconductor industry. Thermax is the latest addition to Vycom's Flametec family of clean room products.



"We are using Thermax for the main enclosures of two process benches that will be installed in a class 100 clean room environment," said Lincoln Bejan, CSTI President & CEO. He noted that many of the support structures and brackets will also be manufactured with the material. "A big advantage of Thermax is that it meets FM 4910 clean room criteria for fire and smoke propagation, yet is lighter weight than existing FM 4910 materials," said Bejan. "This is a plus for handling during the manufacturing phase and it reduces shipping costs to worldwide destinations."

The Factory Mutual 4910 standards are designed to reduce threats to worker safety and damage to semiconductor wafers used in electronics manufacturing. In addition to FM4910, Flametec Thermax PVC also meets UL-94 V-0, ASTM E-84 and is RoHS and REACH compliant.

The new material was introduced to CSTI by Ken Coleman of Professional Plastics, one of the largest plastics distributors on the West Coast. "Flametec Thermax provides a flame-retardant PVC solution with excellent workability and superior aesthetics," said Coleman. He said it has optimal mechanical properties at service temperatures up to 170 degrees F, high chemical resistance and heat deflection surpassing that of standard PVC.

"Our technicians working with Thermax had no issues," added Bejan. "The material cuts very nicely, has thickness uniformity and a smooth surface finish that makes thermo-forming and welding very manageable. It also has a bright white color for a clean look." He noted that the material is subjected to a variety of chemicals and a strong, reliable bond on the welds and a leak-tight enclosure is a must for the safety of the employees and to safeguard the facility and environment.

"Our customers rely on our materials expertise," he added. "Based on our first experience with Thermax, I would recommend it on a regular basis."

---

*"Thermax meets FM 4910 criteria for flame and smoke propagation, but is lighter weight than other FM 4910 materials for better handling during manufacturing and lower worldwide shipping costs."--Lincoln Bejan, CSTI*

---