



# ORANGEREPORT

PLASTICS INDUSTRY

## *Omni Plastics Takes Purity to the Next Level with the Help of Eriez®*



MODEL P GRATE

### **Problem:**

[Omni Plastics, Inc.](#) specializes in manufacturing high precision, close tolerance, injection molded plastic parts for the medical, pharmaceutical and electronics industry. For precision and cleanliness, Omni requires completely uncontaminated raw materials in its processes. Omni's raw materials are predominantly "virgin" plastic, purchased from major resin manufacturers. Occasionally they will grind parts that have been rejected. Re grind can then be used for some non-medical and non-pharmaceutical customers. To assure product purity and prevent costly equipment damage, metal contamination must be removed from the regrind.

### **Solution:**

Omni turned to Eriez® for help reaching the next level of product purity. Based on Eriez' subsequent recommendations, Omni installed six high temperature (250° F) **Xtreme™** Rare Earth, 6" diameter [Model P Grates](#) to replace older magnets installed on their lines. The powerful Eriez Grates were up to 30x stronger than their previous magnets, and they are positioned in the material hoppers that feed Omni's injection machines. In this position, they effectively prevent ferrous and small, weakly magnetic contamination, such as hardened stainless steel, from damaging injection screws and barrels.

### **Result:**

The Eriez Grates have made the Omni manufacturing process run more smoothly, with less downtime due to plugged nozzles and gates. For Omni, a company whose reputation for precision and purity is essential to its continuing success, the improvements are significant.

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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