

# Curing Plastic Extrusion with a Model E4 Radiant Heating Chamber

## Application

A manufacturer of medical plastics curing a continuous strand of plastic extrusion.

## Problem

**Uneven Heat** - Existing heating method did not provide even heat.

**Wasted Time** - The existing heat source took long periods of time to heat up and cool down.

**Excessive Scrapped Product** - The limitations of the existing heating method resulted in an unacceptable amount of scrapped product.

## Solution

**Heat** - A Model E4-10 Radiant Heating Chamber applied even heating to the plastic extrusion.

**Instant On/Off** - The Radiant Heating Chamber heated up and cooled down instantly.

**Power Control** - A Model 664F Phase Angle SCR Power Controller controlled the Radiant Heating Chamber.

**System Integration** - A tachometer feedback switch installed as part of the system cut off power to the Radiant Heating Chamber if the line shut down.

## Benefits

**Improved Quality** - The Model E4-10 Radiant Heating Chamber provided the precise amount of even heating required to produce quality plastic extrusion.

**Saved Time** - No time was lost waiting for the Radiant Heating Chamber to heat up or cool down.

**Reduced Scrap** - Product scrap was significantly reduced as a result of the instant on/off capabilities of the Radiant Heating Chamber combined with the tachometer feedback switch.