CHASE NEDROW INDUSTRIES

CASE STUDY

# Injection Blow Molding

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## Overview

- **Application:**
  Injection Blow Molding Manifold
- **Substrate:**
  Refractory, Ceramic Fiber

## Problem

This manifold was expanding too much during the injection blow molding process due to the heat it was absorbing from the actual mold. The expanding manifold was causing the molds to not shut correctly and effecting the specification of the plastic part. Optical pyrometer temperature measurements were taken and showed the surface of the manifold was 120°C.

## Application of Emisshield™

The steel manifold was grit blasted down to the bare metal. Emisshield™ was applied using a high volume low pressure (HVLP) spray gun. The coating air dried for at least 24 hours and was put back into service.

Emisshield®

## Emisshield™ Benefits

Optical pyrometer measurements were taken again and showed surface temperature of only 66°C. This resulted in a success for the customer as the reduced surface temperature indicates that the manifold will not expand as much due to the Emissield™ dissipating the heat more efficiently than the bare steel.

**Dissipating the Heat More Efficiently**

**Reduced Surface Temperature**