

The objective of this project is to mitigate debris on the mylar sheet during the justification process

Purpose

Damaged DPF's from ceramic debris costs Corning Inc. millions of dollars annually. Developing a solution to mitigate the debris will save the company time and money.

Targets

In accordance with lean manufacturing, we have identified the following targets

2 Degrees of Freedom

Reduce Debris to 0.4 g

Automated Design

Testing

Debris Test

Pour powdered sugar over the filter and the design. Test how much debris lands onto the sticker.

Friction Test

Scrape the device against the DPF filter to simulate the scrapping during the manufacturing process.

How it works

- 1 The lower tooling goes near the DPF filter
- 2 Our device then covers the gap between the DPF filter and the lower tooling

