

# The Reflow of Semi-Cured Material

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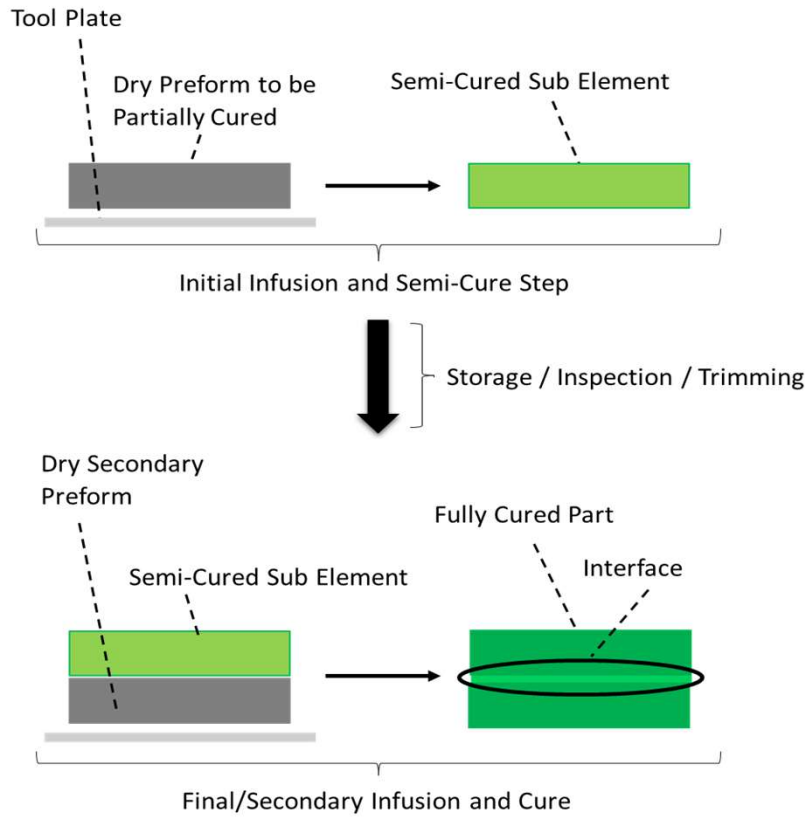
BCI Research Symposium

4/4/23

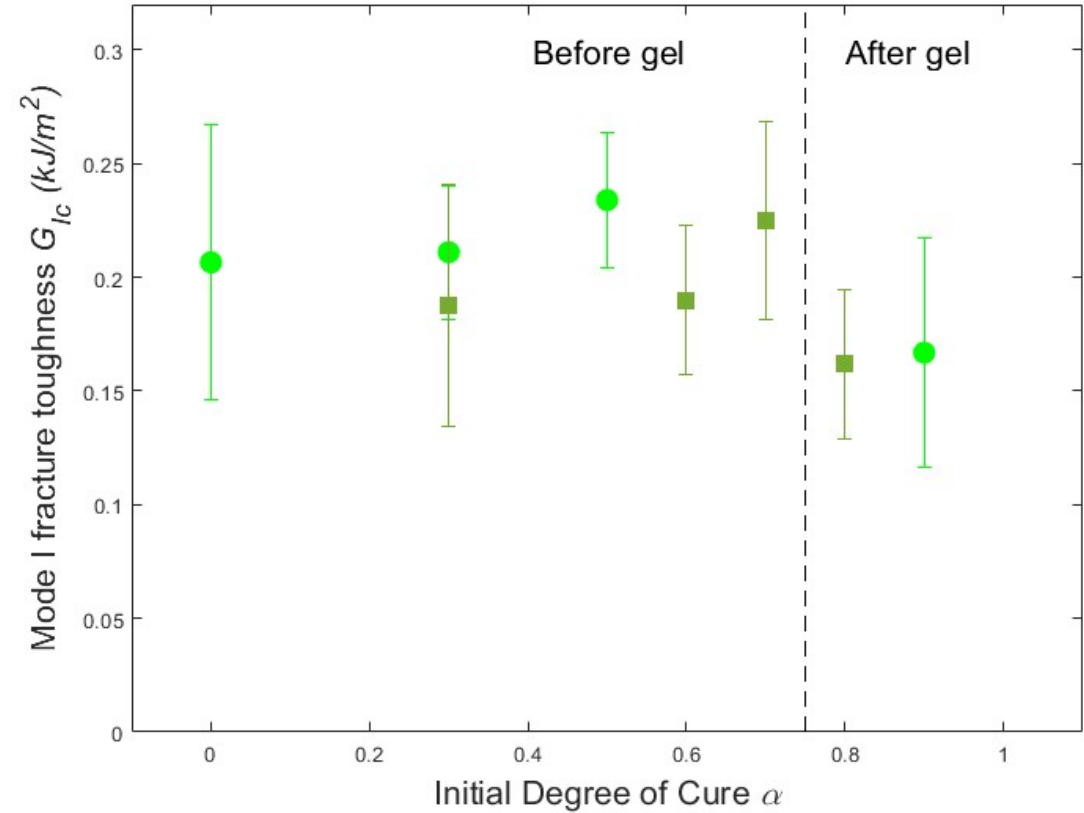
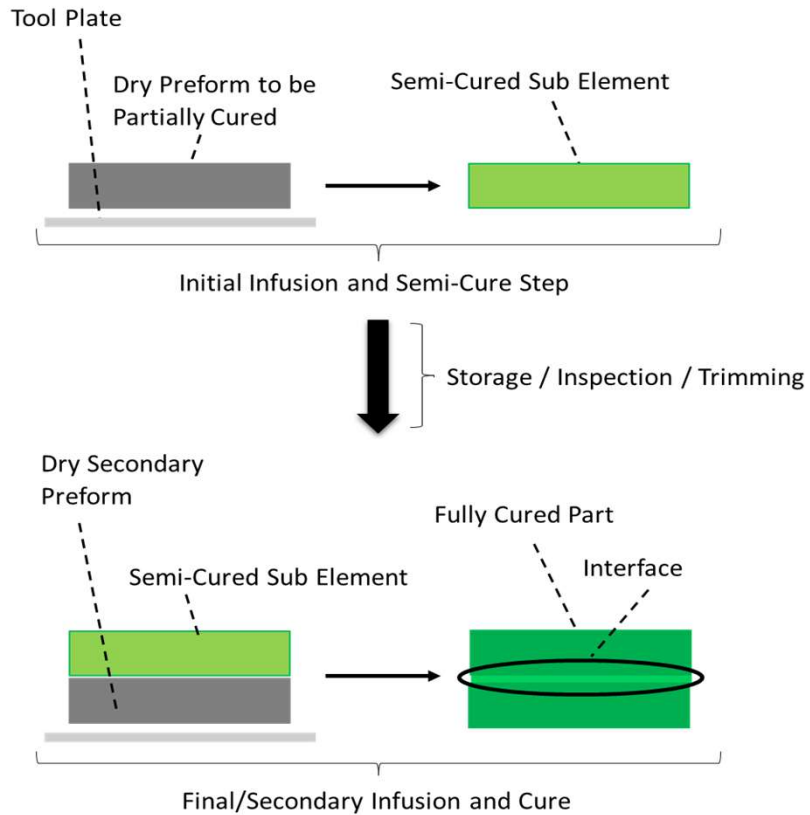
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# Motivation

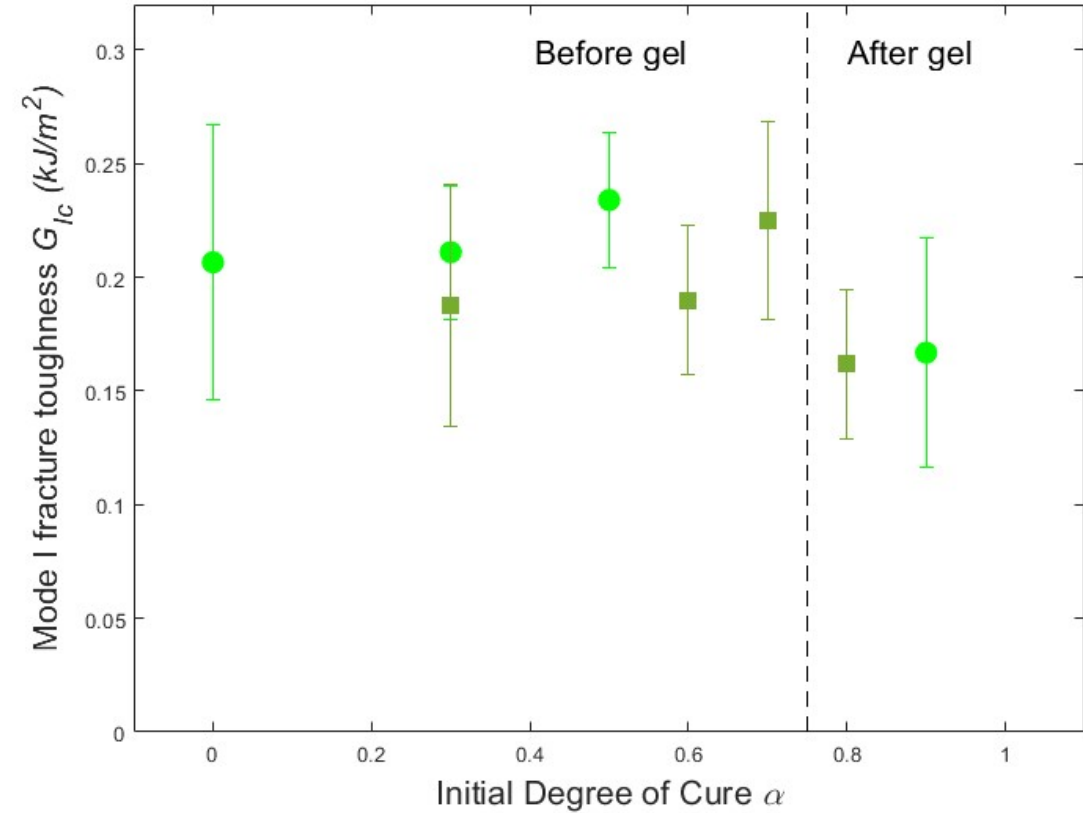
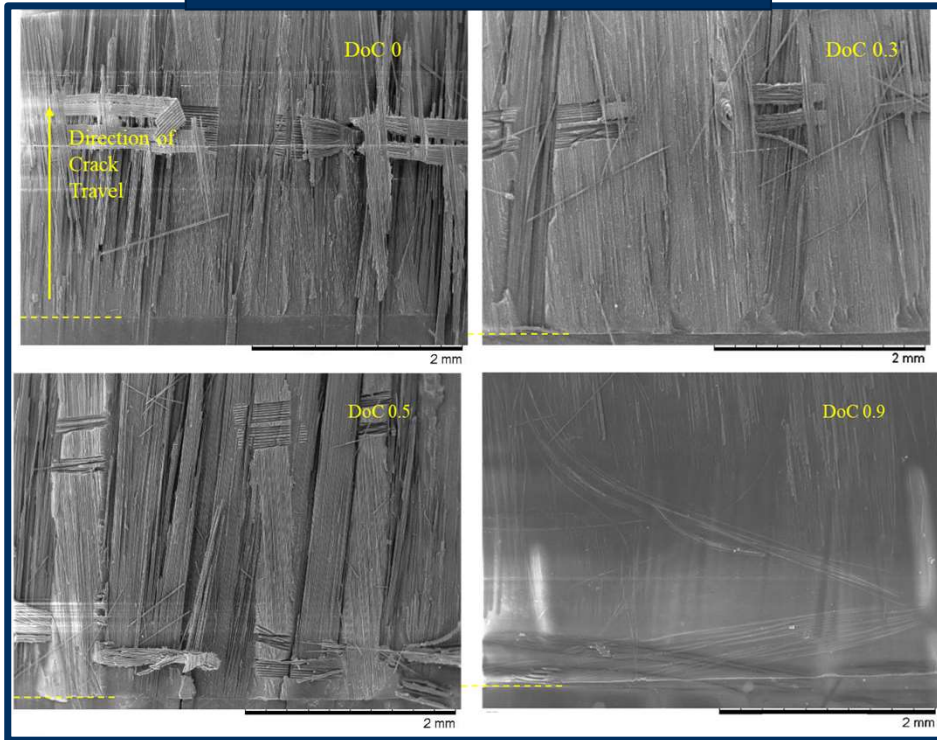


# Motivation



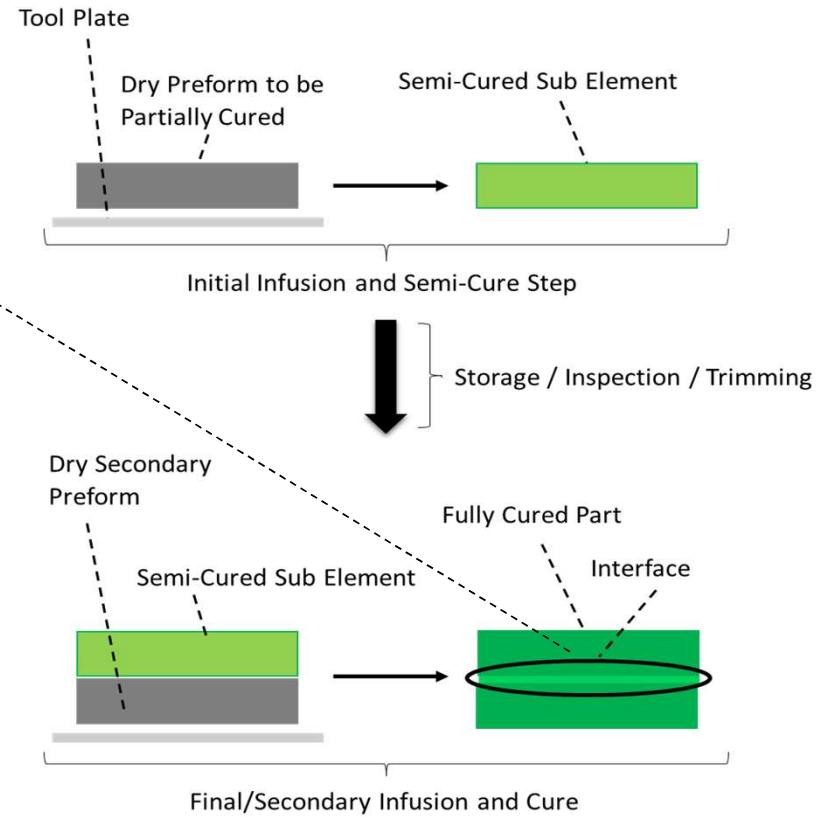
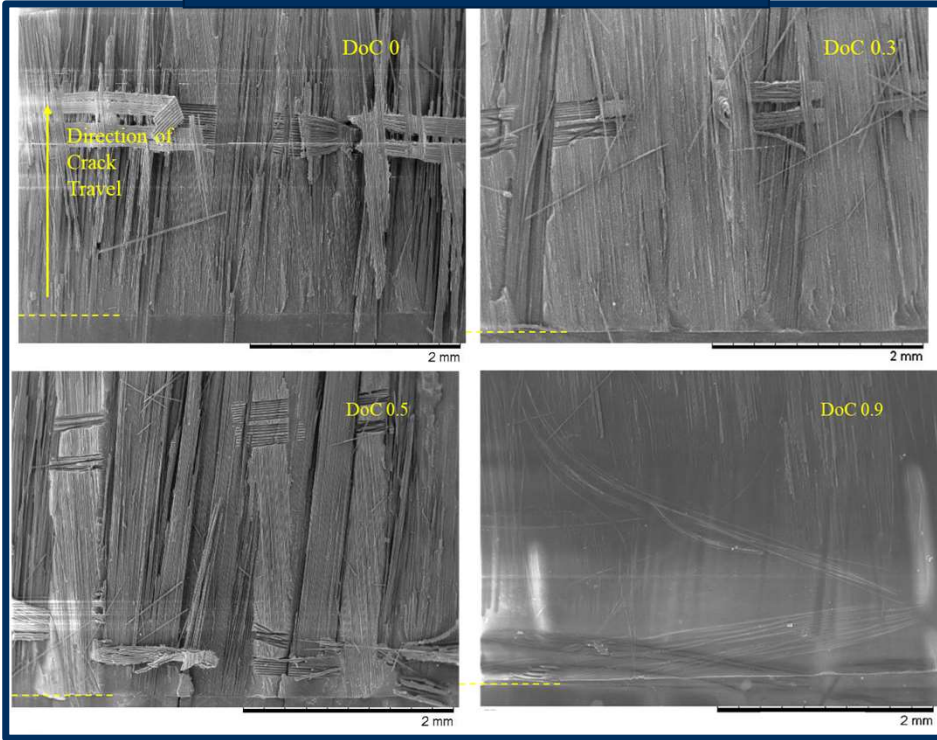
# Motivation

## Mode I DCB Fracture Surfaces

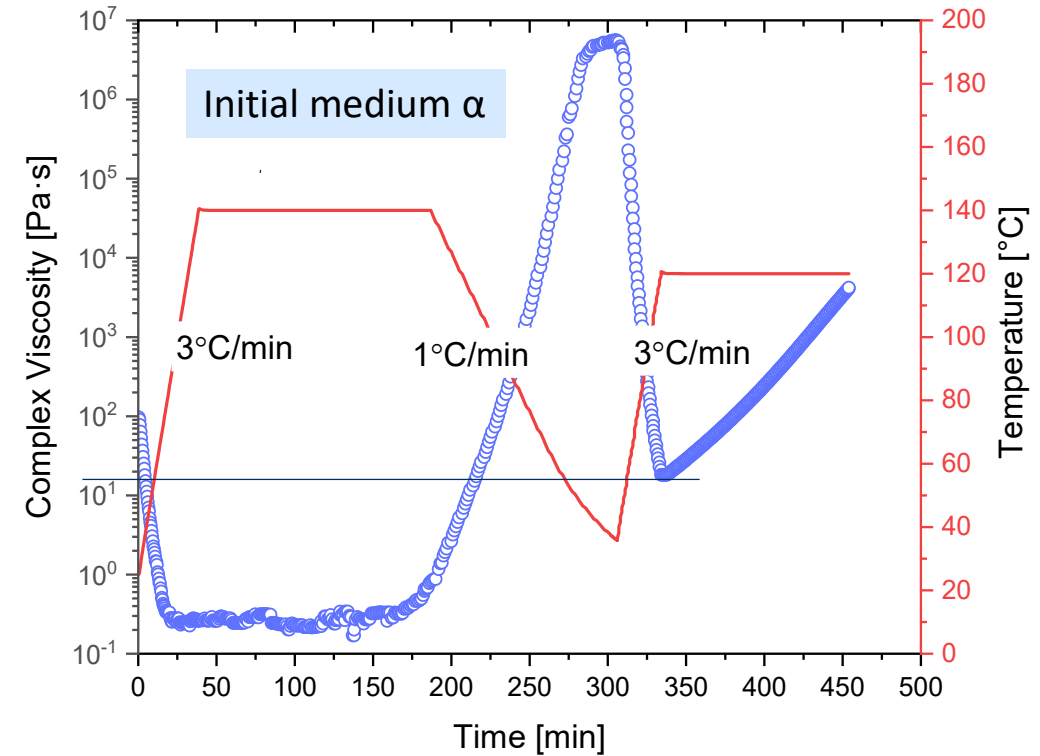
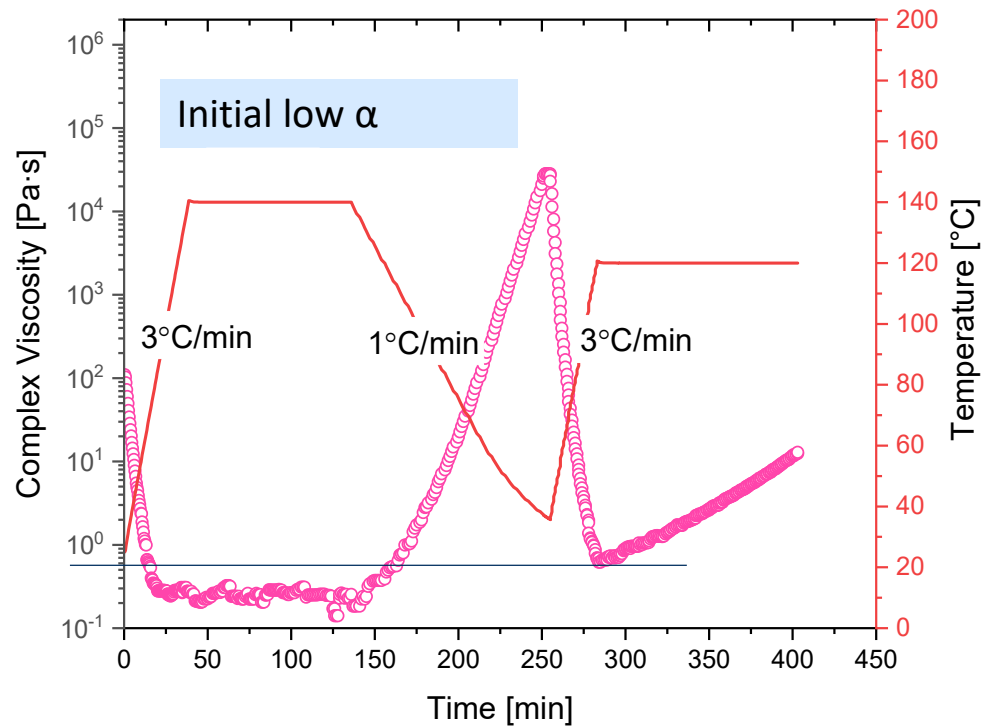


# Motivation

## Mode I DCB Fracture Surfaces



# Initial Rheological Experiments



# In-Situ Testing

- Custom 450/225 kVp Hutch in  $\mu$ -VIS X-ray Imaging Centre used for In-Situ characterisation.
- Custom UoB heating rig developed in BCI used.

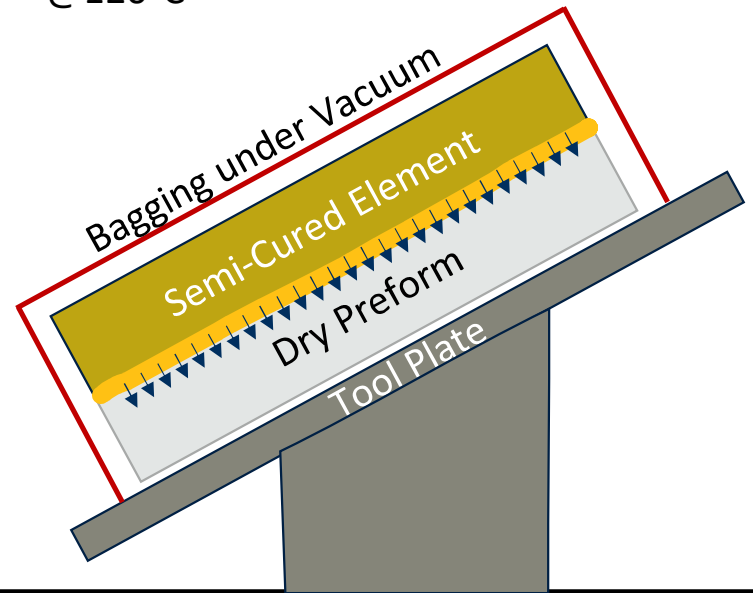
**NXCT** | National X-Ray  
Computed  
Tomography



# In-Situ Testing

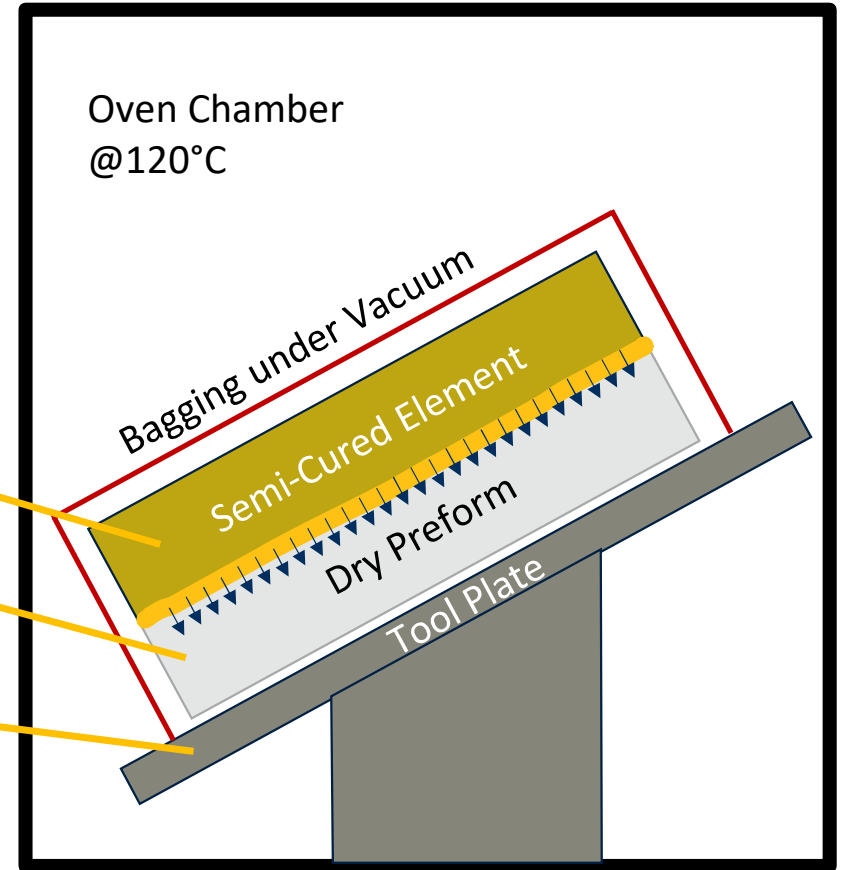
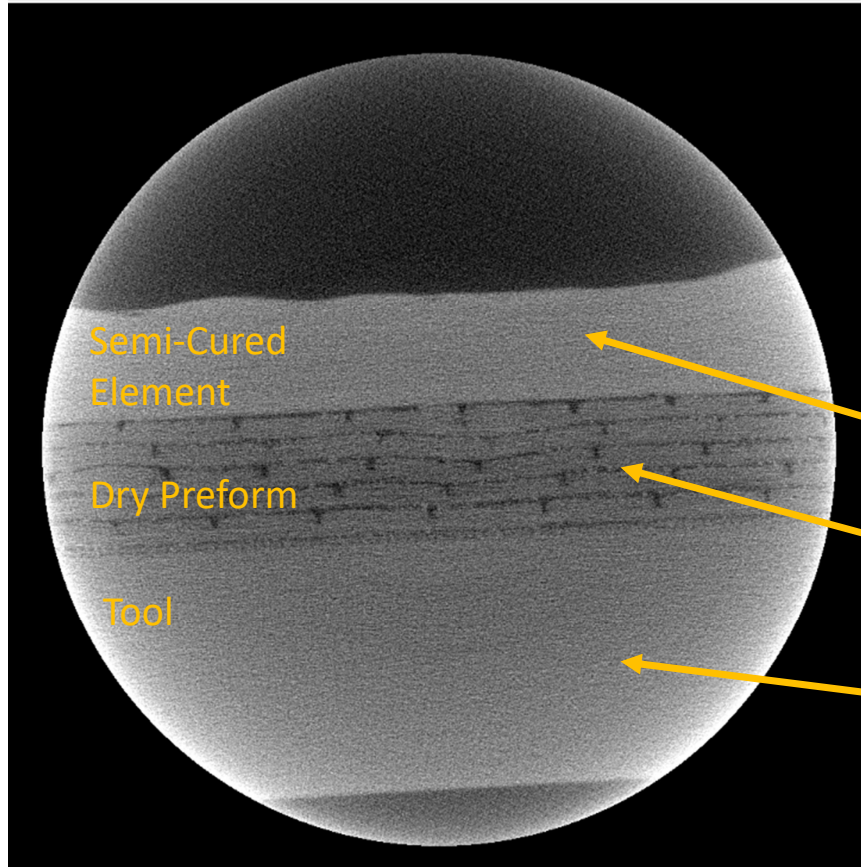


Oven Chamber  
@120°C



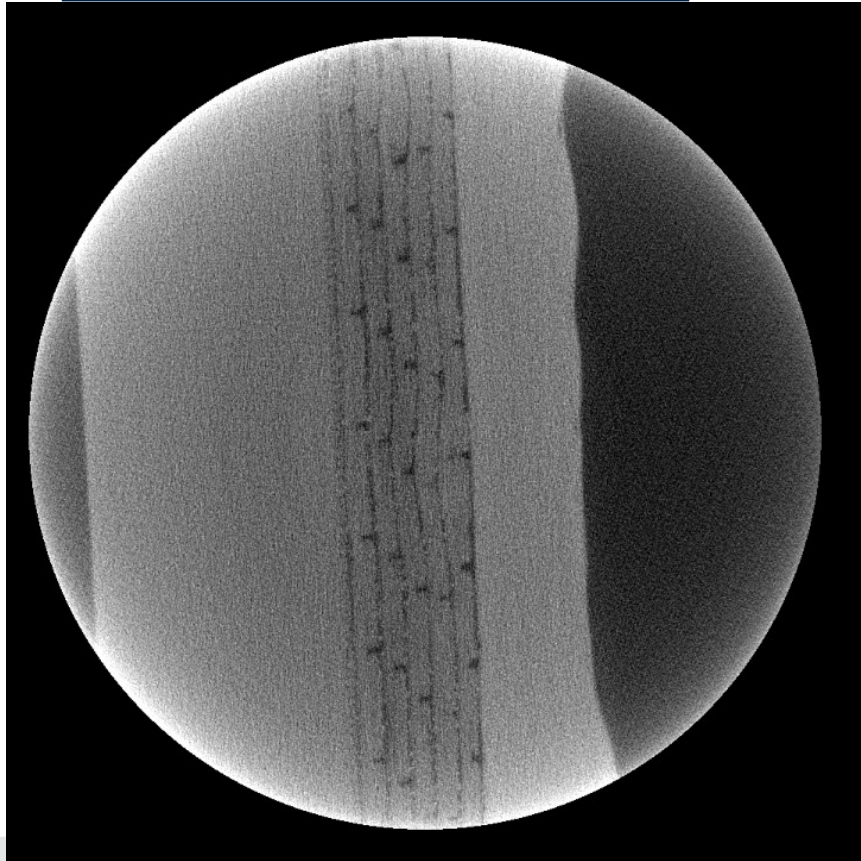


# In-Situ Testing

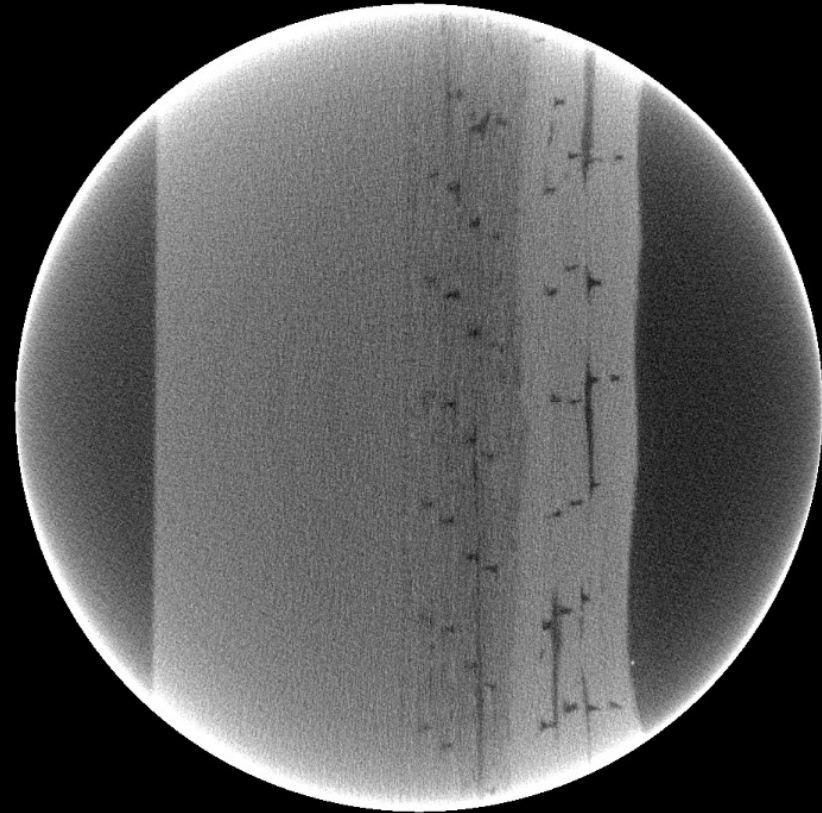


# In-Situ Results

High Degree of Cure



Low Degree of Cure



# Thank you!

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