

# The retention of silicone on moulded composites

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## Aim:

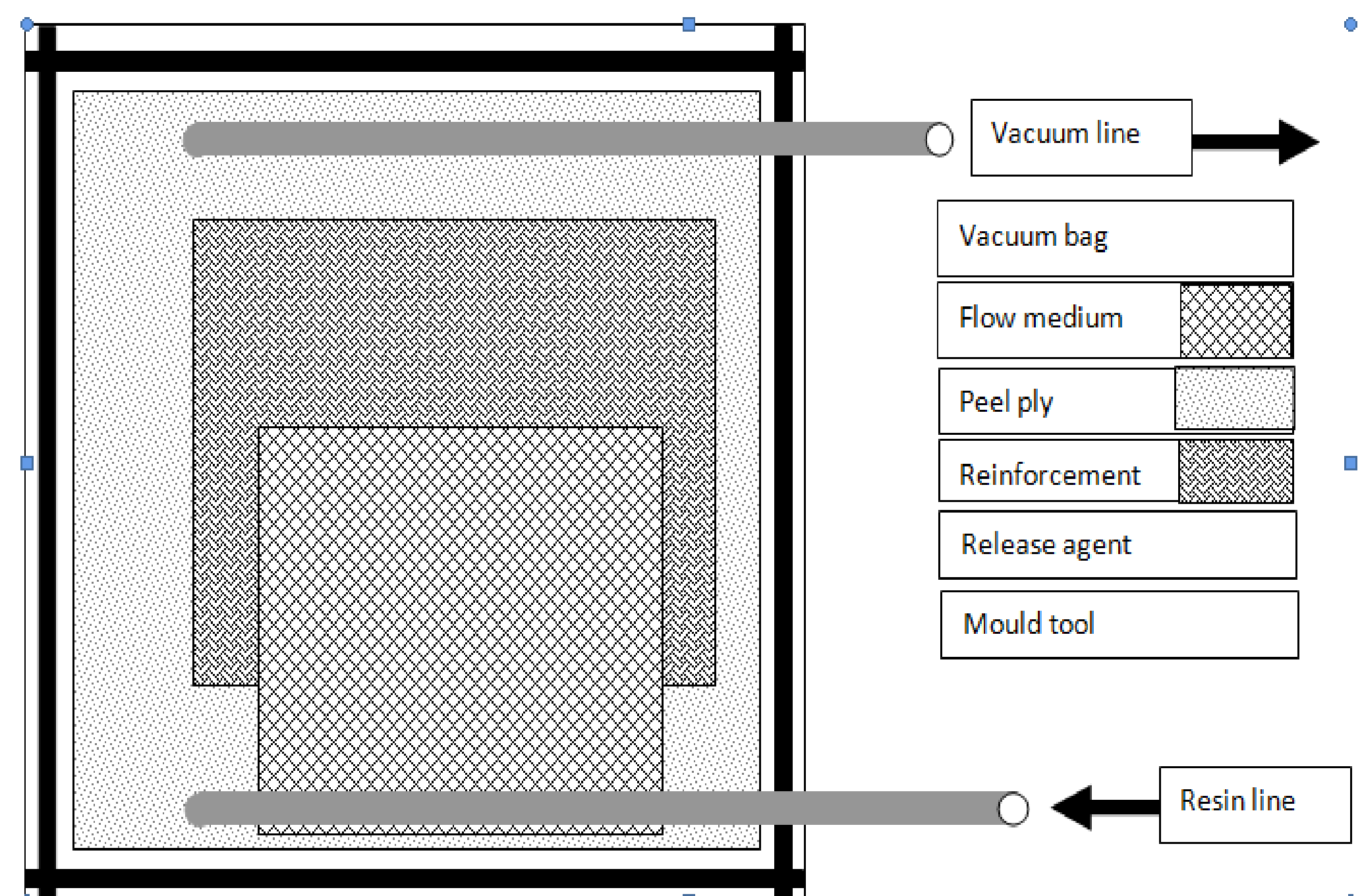
- To seek a more cost effective and environmentally sound route to manufacture high volume fraction composite components
- To identify any transfer of silicone from the membrane to the surface of a moulding

## Methodology:

- BS ISO 4587 – Tensile LAP shear strength of bonded assemblies
- Fourier Transform Infra-Red Spectroscopy

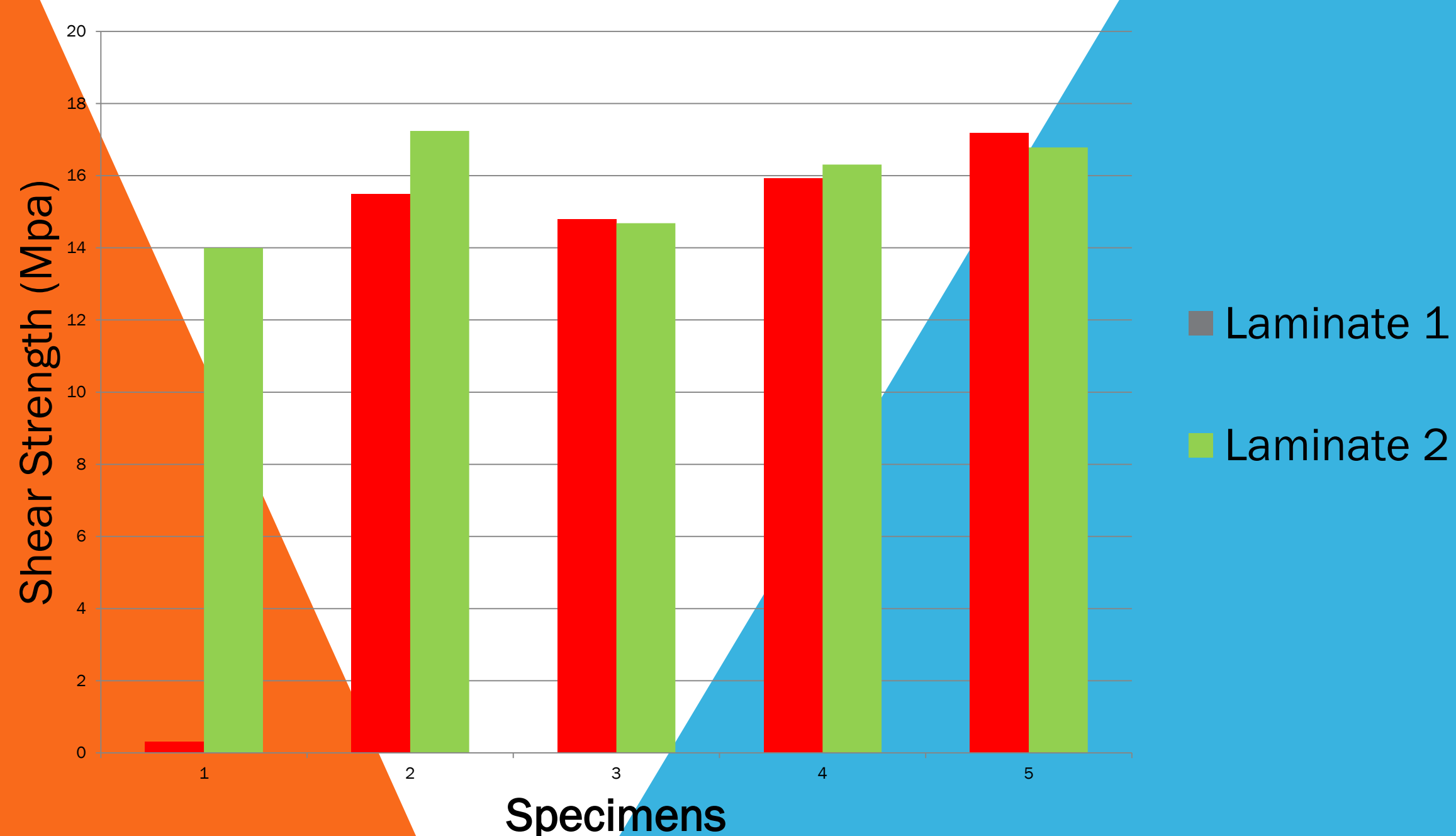
## Results :

- Very little deviance in apparent bond strength
- Silicone was present on certain specimens



Schematic View of RIFT (JS and RKC, 2011)

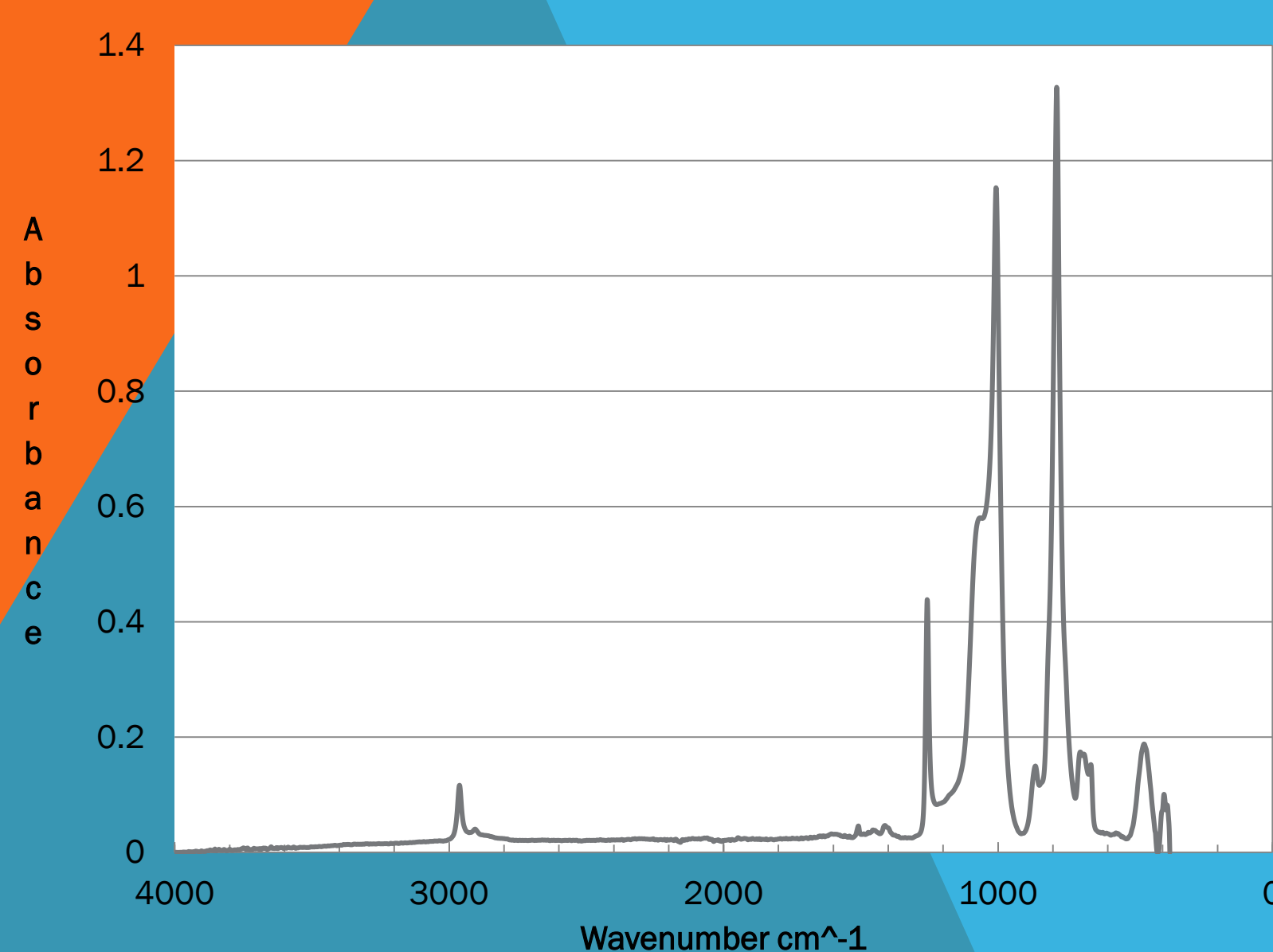
Chart to show Adhesive Tensile LAP Shear Strength of Bonded Assemblies



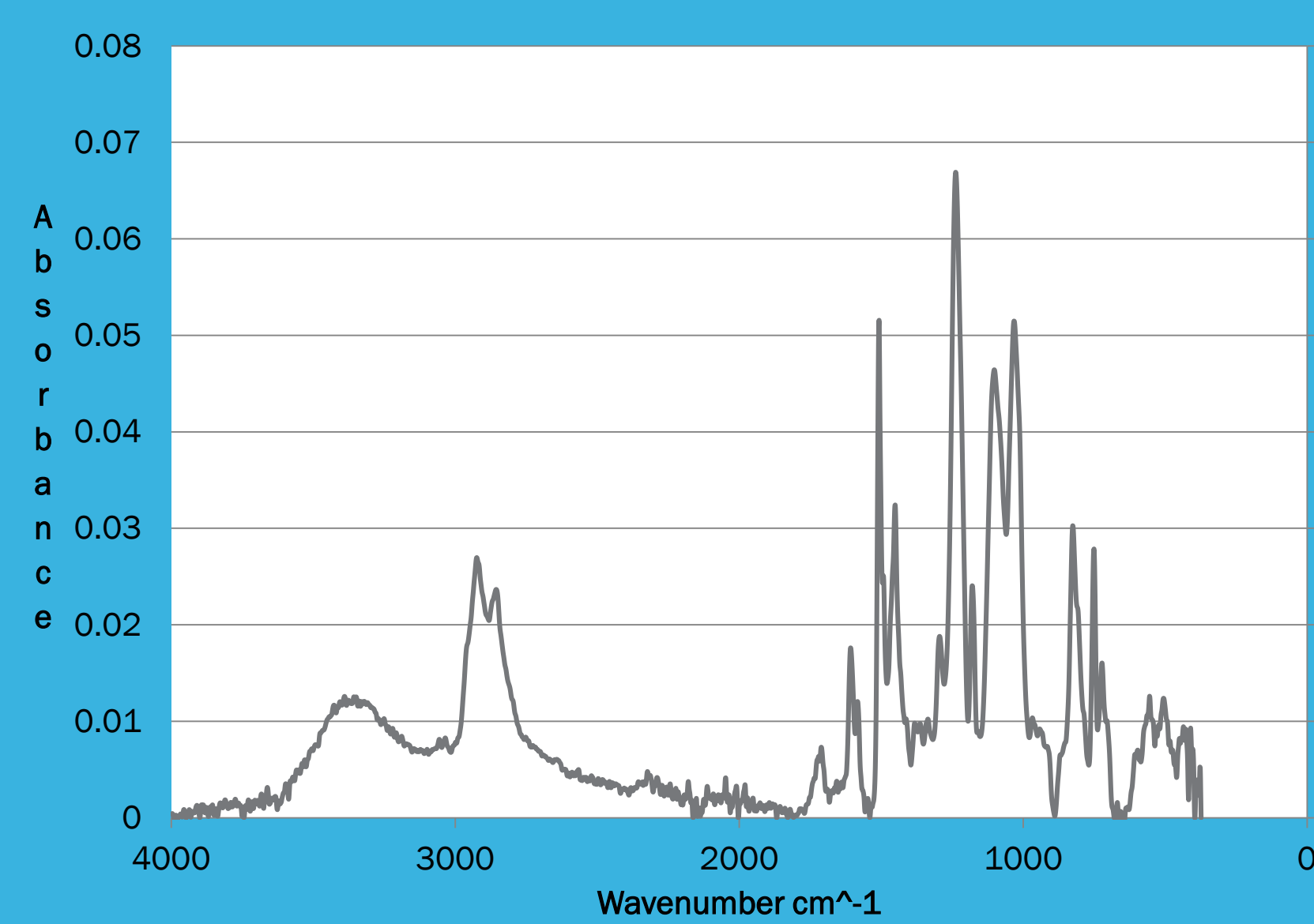
Silicone Membrane



Traditional Infusion



Silicone Membrane Infra-Red Spectrum



Manufactured Specimen Infra-Red Spectrum