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## Finite Element Analysis of Debonding Propagation in FM73 Joint under Static Loading

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**Abstract**: In this work, Fracture Mechanics is used to predict crack propagation in the adhesive joining aluminum and composite plates. Three types of loadings and two types of glass-epoxy composite sequences: [0/90]2s and [0/45/-45/90]s are considered for the composite plate. Therefore, 2\*3=6 cases are considered and their results are compared. The debonding initiation load, complete debonding load, crack face profile and load-displacement diagram have been compared for the six cases.

**Keywords:** adhesive joint, debonding, fracture, LEFM, APDL

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