

FEA Testing

Staples U-Type

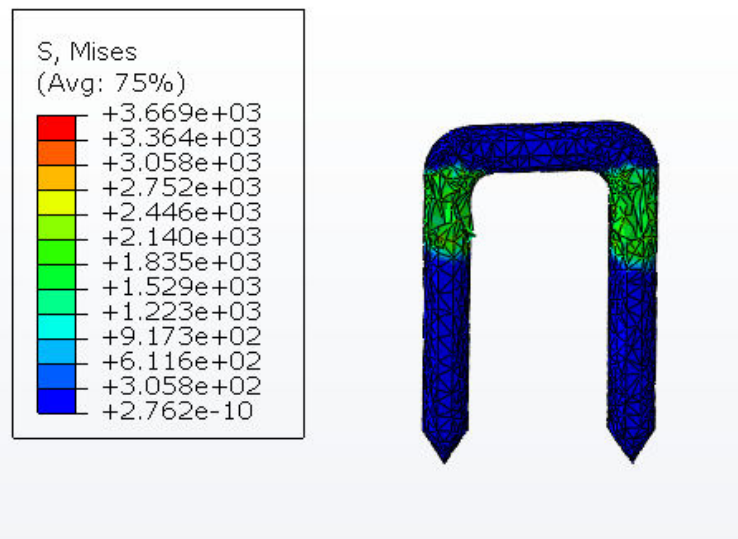
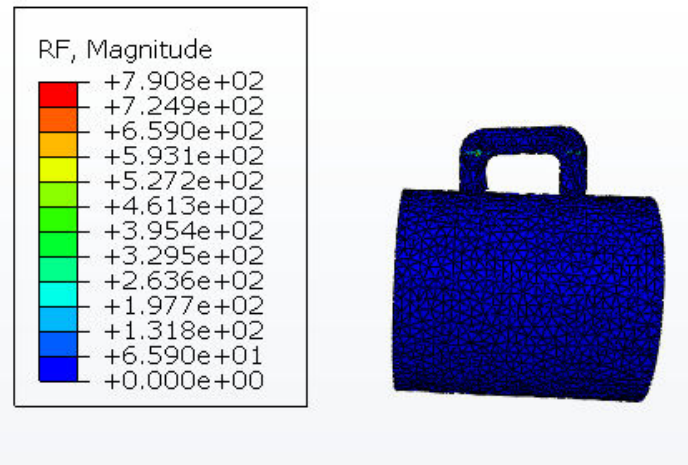
Summary

Pull out of testing of staples pin was conducted as per ASTM F 564-17 using Finite Element Analysis with Ultra-high-molecular-weight polyethylene (UHMWPE) block. A displacement based loading conditions was applied to the staples.



Mesh

A maximum displacement of 5 mm was applied and corresponding 790 N load was observed during the FEA.



Maximum stress of 3669 Mpa was observed at the top of the pin legs and minimum stress was observed at the bottom of the pin legs.