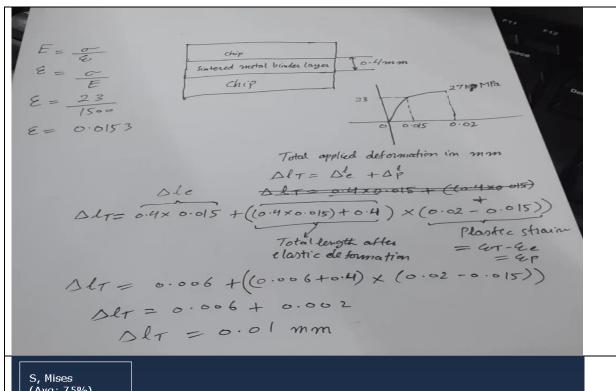
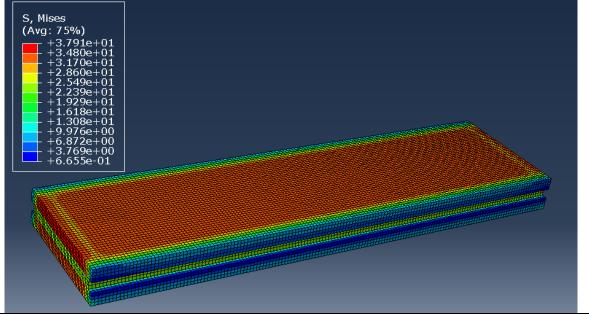
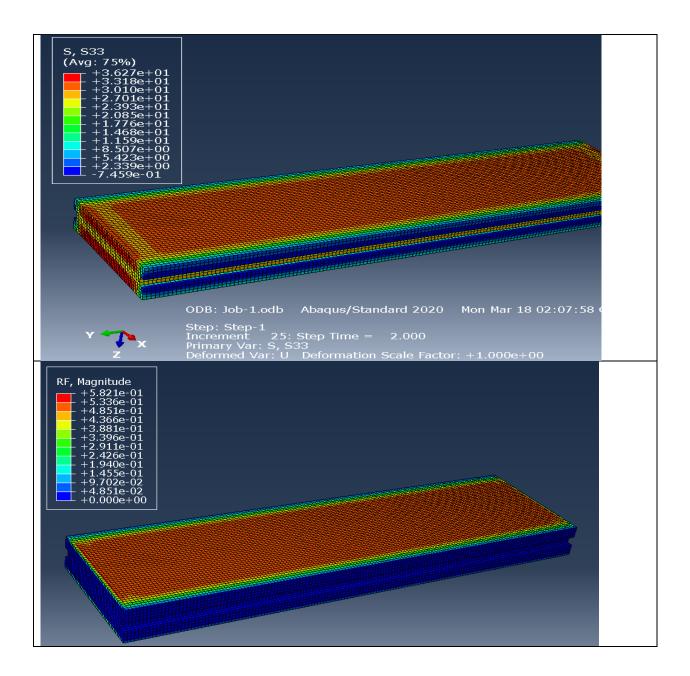


Figure 1 shows the reaction force-displacement nodal response for dog bone tension specimen shows the output force of 180N which when divided by the (5\*1.6) mm<sup>2</sup> gives the yield point of 22.5 MPa near to zero plastic strain in given data. Contour plots are provided for stresses and applied displacement and the calculation of applied displacement corresponding to 0.02 strain which is 0.7227 mm from stress-strain curve **but it is not reaching to the peak stress value of 27 Mpa. Why?** 







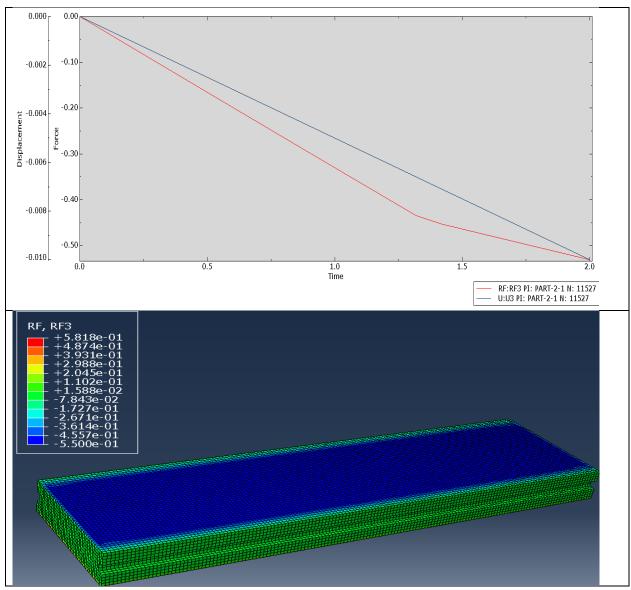


Figure 2 shows the values of output stresses which are a bit higher compared to the input stress strain: curve but the reaction force comes out to be very low. The flat surface area of the connection of the binder layer is (5\*20) mm² which gives stress as 0.5N/100m² equals 0.005 MPa which is very low compared to the output stress values in the results as well as in the simulation. Why? Also why the values of output stresses are a bit higher compared to peak of 27MPa as of input data?