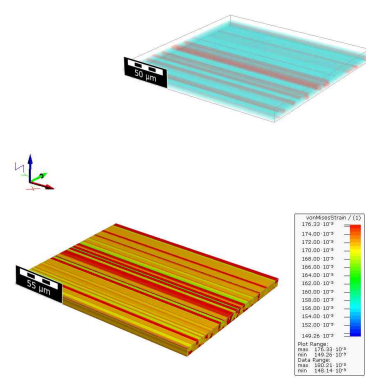
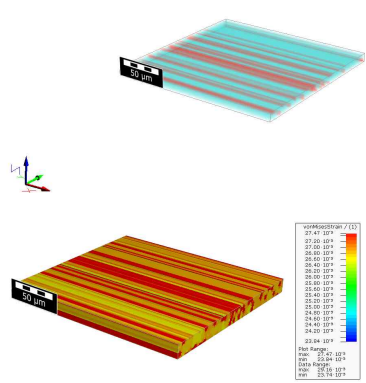
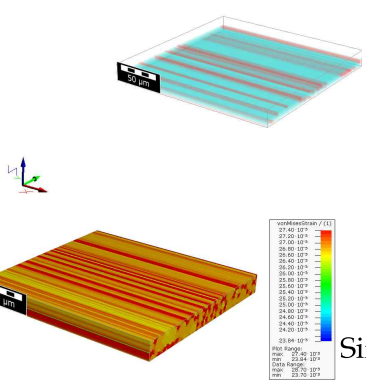
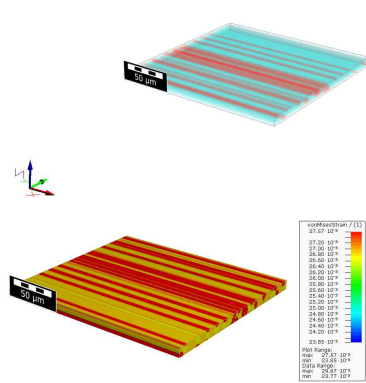
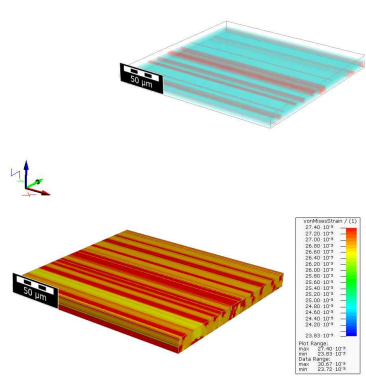
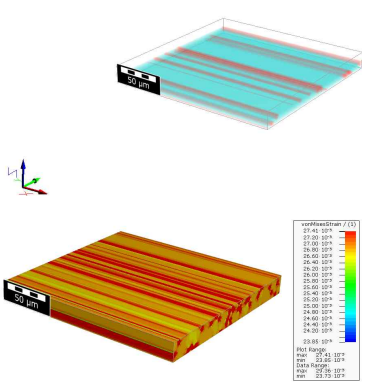
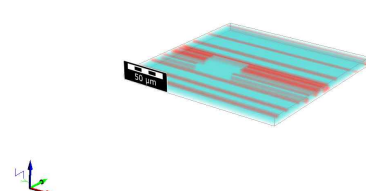
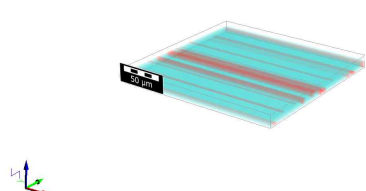
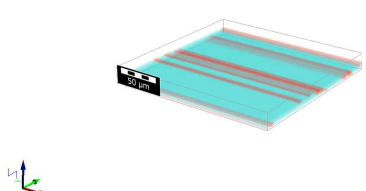
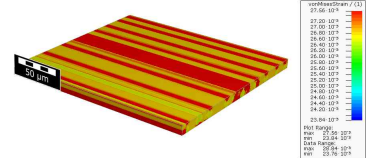
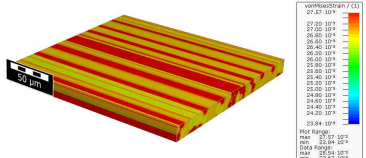
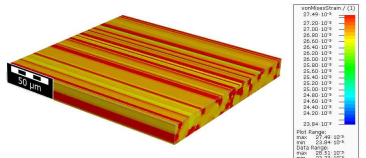
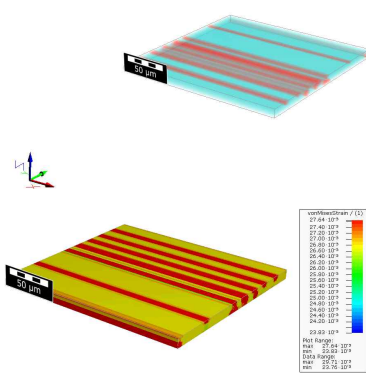
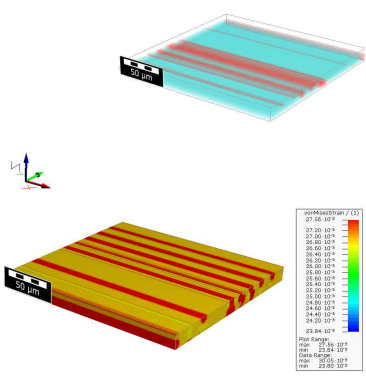
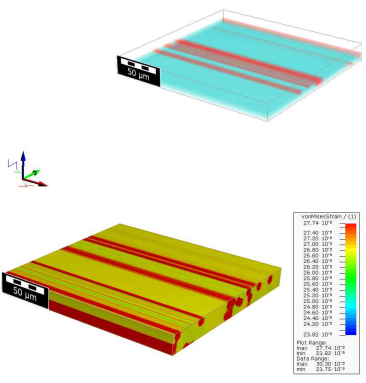
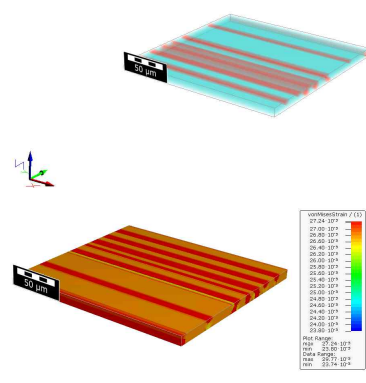
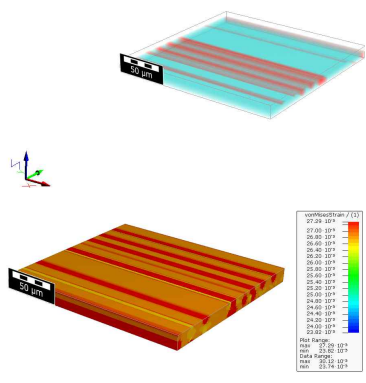
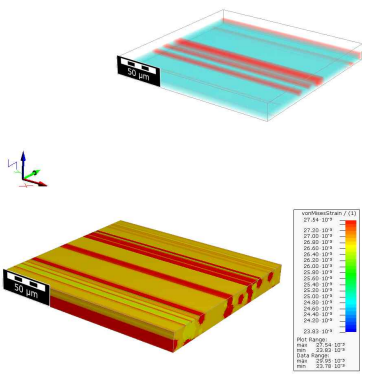


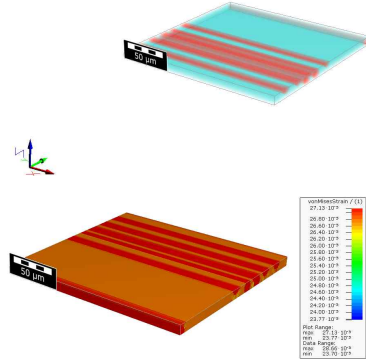
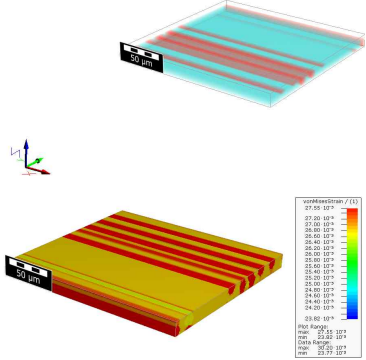
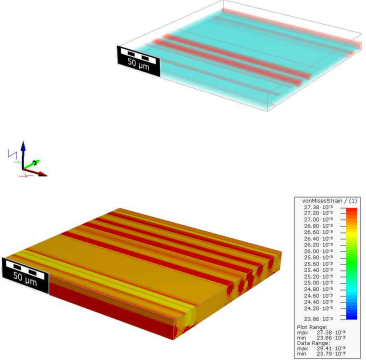
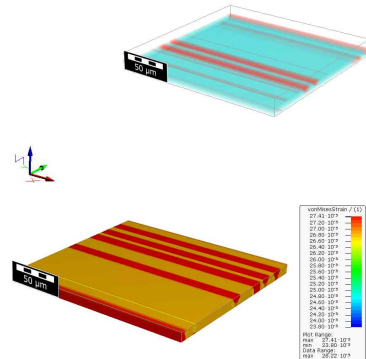
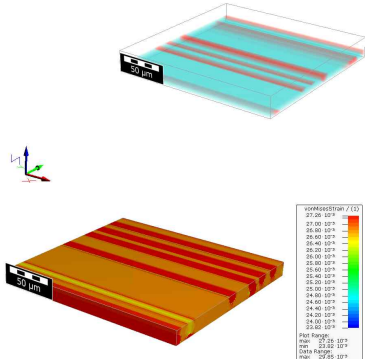
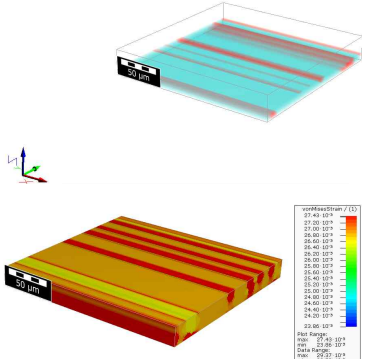
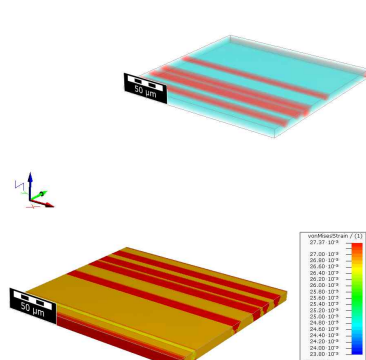
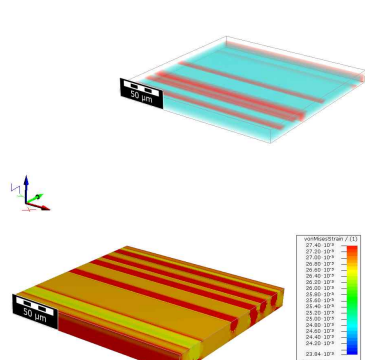
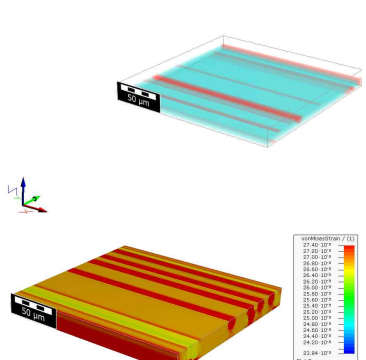
탄소섬유 모델 DB 구축 (30건)

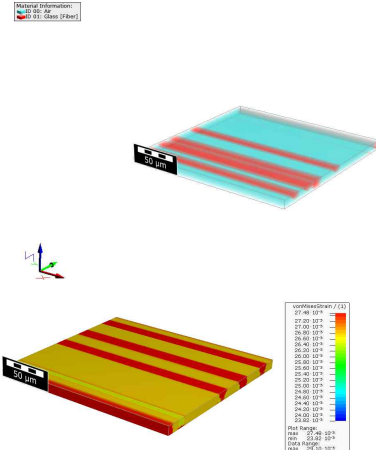
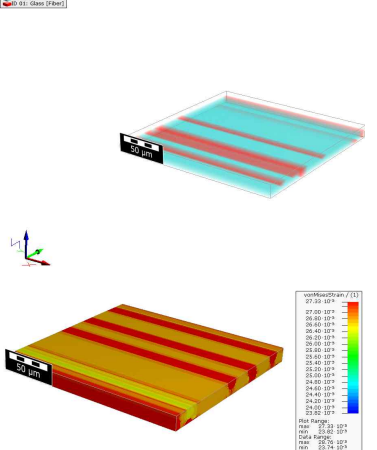
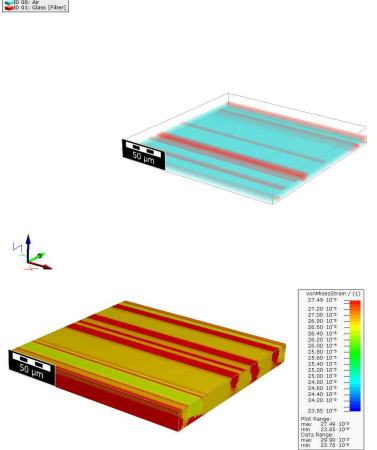
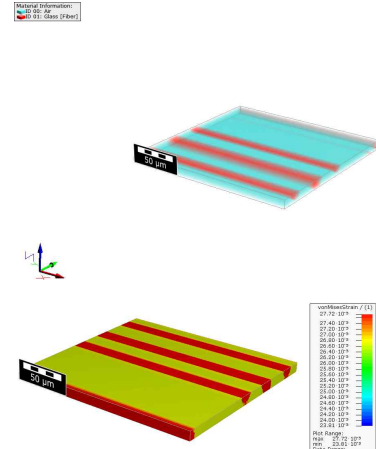
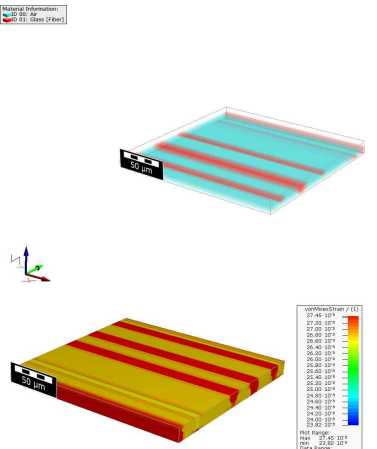
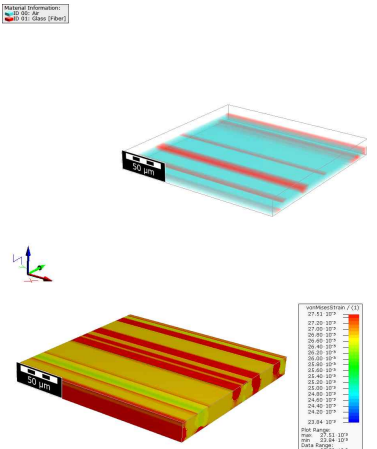
- 에폭시가 수지로 적용된 탄소섬유의 가상 모델링을 통한 DB구축을 진행하였음. 본 모델은 모델링 자동화 프로세스를 통해서 구축되었으며, 추후 물성 분석 시뮬레이션을 통해 탄소섬유의 강도 성능 예측에 활용될 수 있음.

[CFRP의 가상 모델 단층 형상(SVP:체적률, D:직경(um), T:두께)]

20SVP, 5D, 10T	20SVP, 5D, 15T	20SVP, 5D, 20T
 Siffness = 48.39GPa	 Siffness = 48.19GPa	 ness = 48.39GPa
20SVP, 6D, 10T	20SVP, 6D, 15T	20SVP, 6D, 20T
 Stiffness = 49.05 GPa	 Stiffness = 48.81 GPa	 Stiffness = 48.39 GPa
20SVP, 7D, 10T	20SVP, 7D, 15T	20SVP, 7D, 20T
		

 Stiffness = 47.86 GPa	 Stiffness = 49.01 GPa	 Stiffness = 49.79 GPa
20SVP, 9D , 10T	20SVP, 9D , 15T	20SVP, 9D , 20T
 Stiffness = 48.3 GPa	 Stiffness = 47.98 GPa	 Stiffness = 49.22 GPa
20SVP, 10D , 10T	20SVP, 10D , 15T	20SVP, 10D , 20T
 Stiffness = 49.33 GPa	 Stiffness = 50.3 GPa	 Stiffness = 48.45 GPa
20SVP, 12D , 10T	20SVP, 12D , 15T	20SVP, 12D , 20T

 Stiffness = 54.2 GPa	 Stiffness = 49.44 GPa	 Stiffness = 47.02 GPa
20SVP, 13D, 10T	20SVP, 13D, 15T	20SVP, 13D, 20T
 Stiffness = 46.87 GPa	 Stiffness = 46.13 GPa	 Stiffness = 45.65 GPa
20SVP, 14D, 10T	20SVP, 14D, 15T	20SVP, 14D, 20T
 Stiffness = 52.66 GPa	 Stiffness = 51.17 GPa	 Stiffness = 51.17 GPa
20SVP, 15D, 10T	20SVP, 15D, 15T	20SVP, 15D, 20T

20SVP, 15D, 10T	20SVP, 15D, 15T	20SVP, 15D, 20T
 Stiffness = 48.45 GPa	 Stiffness = 48.16 GPa	 Stiffness = 48.12 GPa
20SVP, 16D, 10T	20SVP, 16D, 15T	20SVP, 16D, 20T
 Stiffness = 51.46 GPa	 Stiffness = 49.19 GPa	 Stiffness = 49.4 GPa