

Fig. S1. Mass gain versus surface to volume ratio (composite).

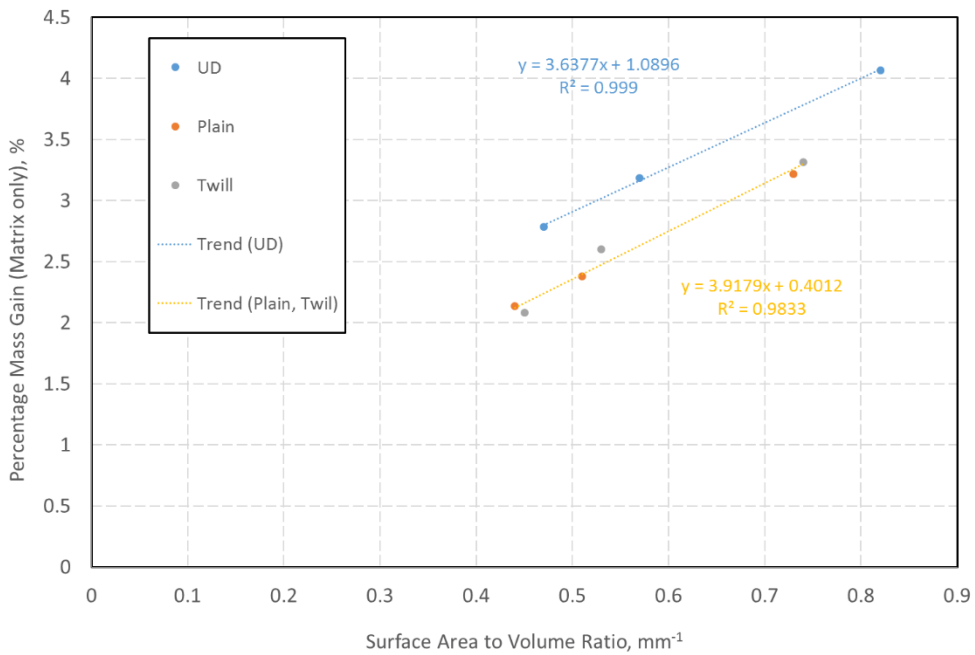


Fig. 2. Mass gain versus surface to volume ratio (matrix).

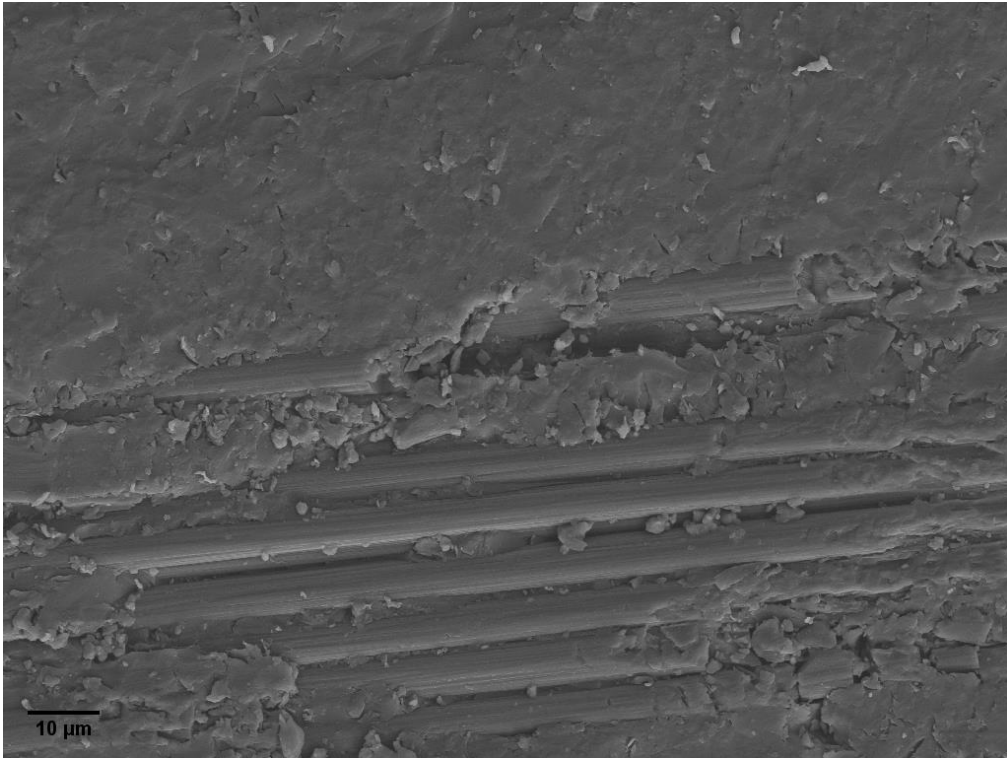


Fig. S3. SEM micrographs of un-aged plain weave surface.

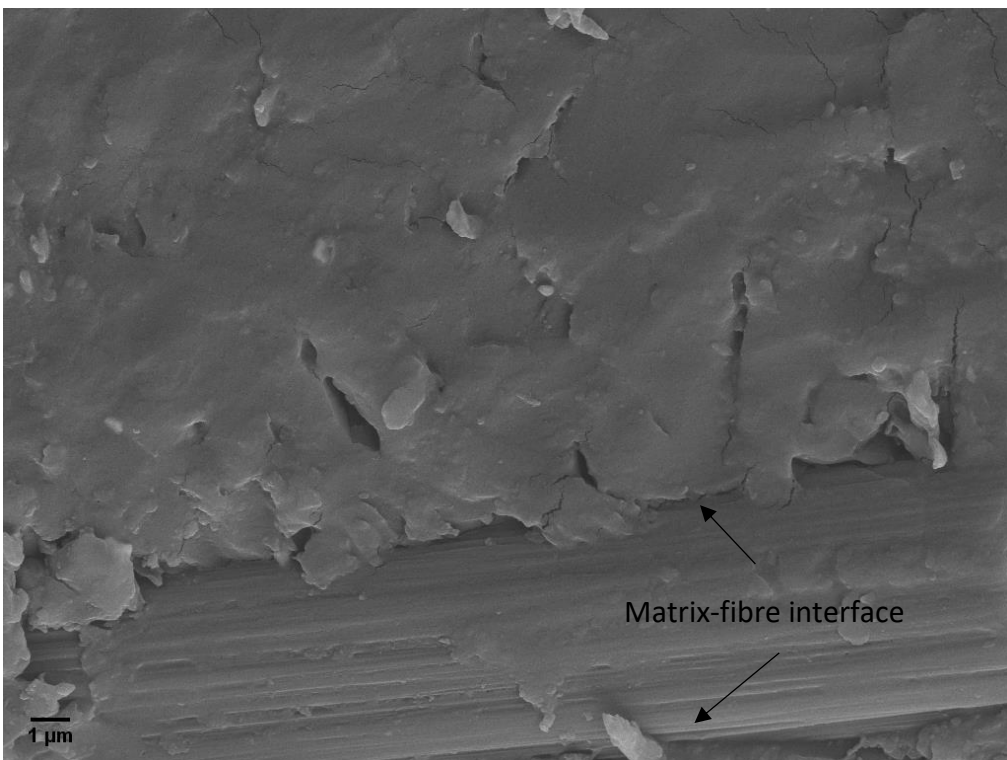


Fig. S4. SEM micrographs of un-aged plain weave surface.

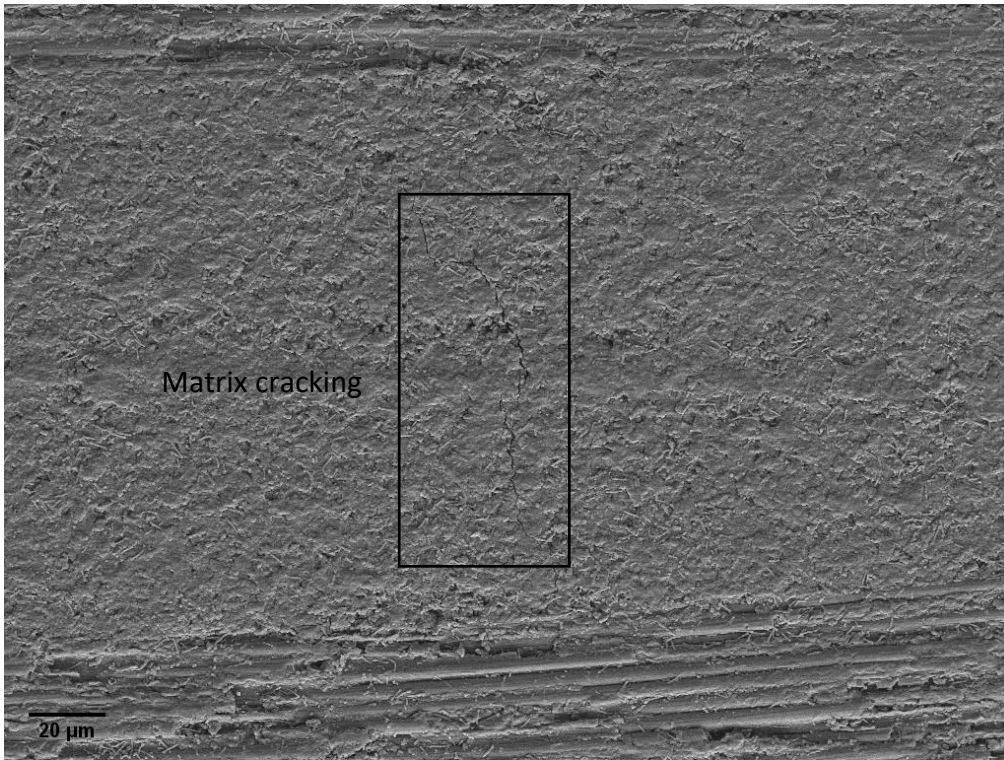


Fig. S5. SEM micrographs of aged plain weave surface.

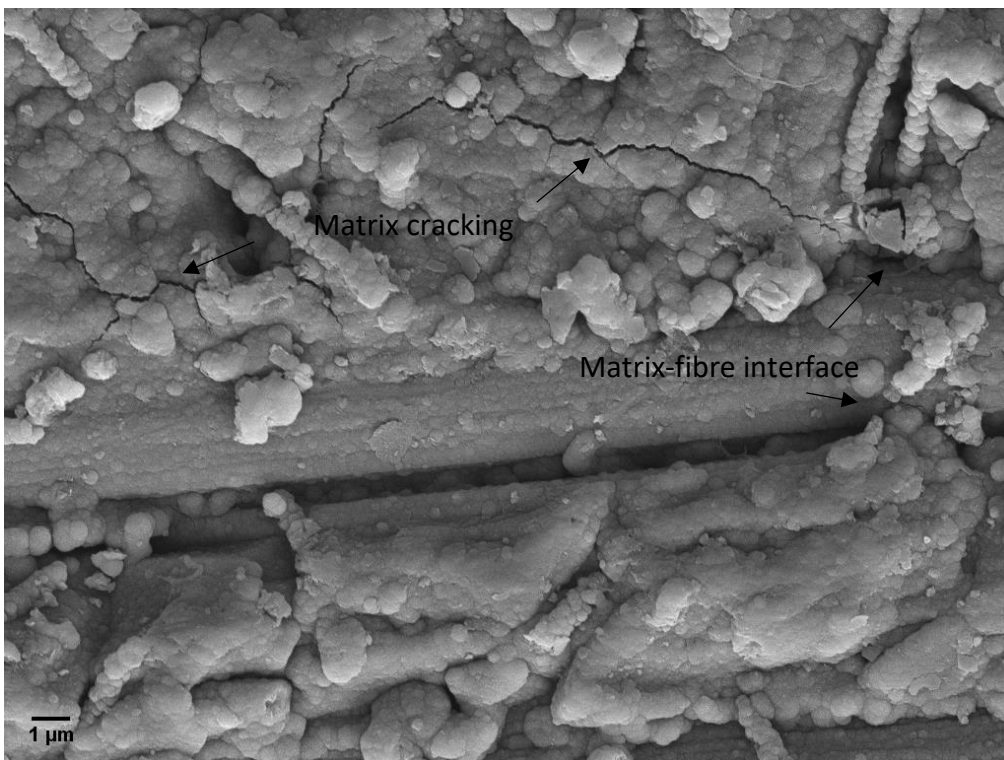


Fig. S6. SEM micrographs of aged plain weave surface.

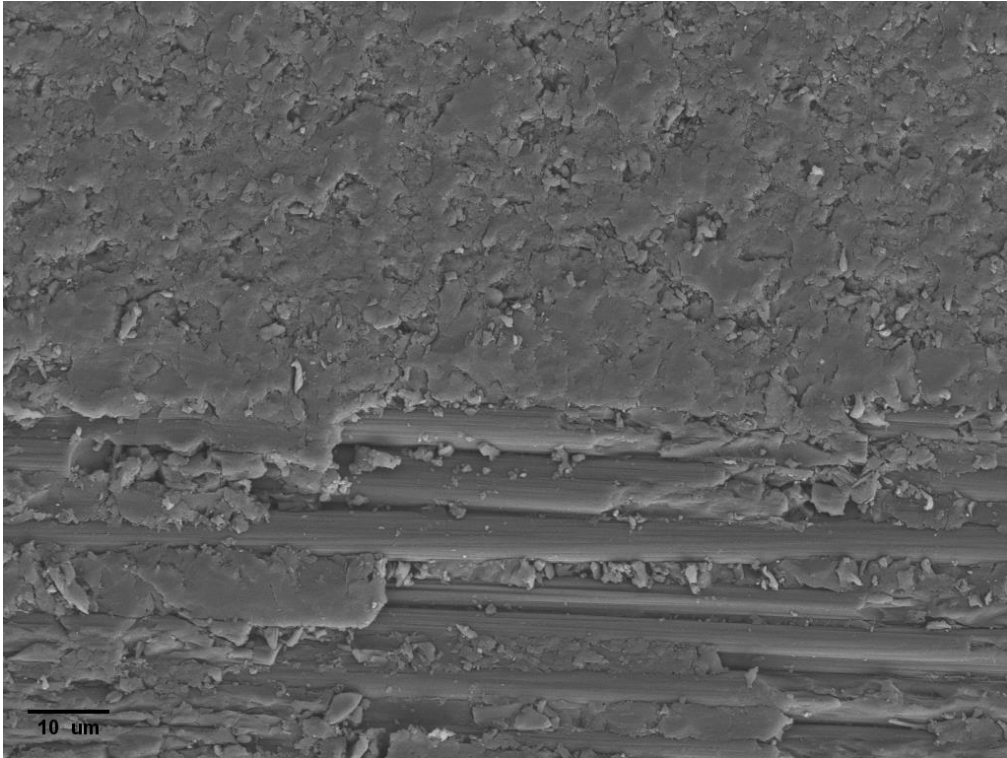


Fig. S7. SEM micrographs of un-aged twill weave surface.

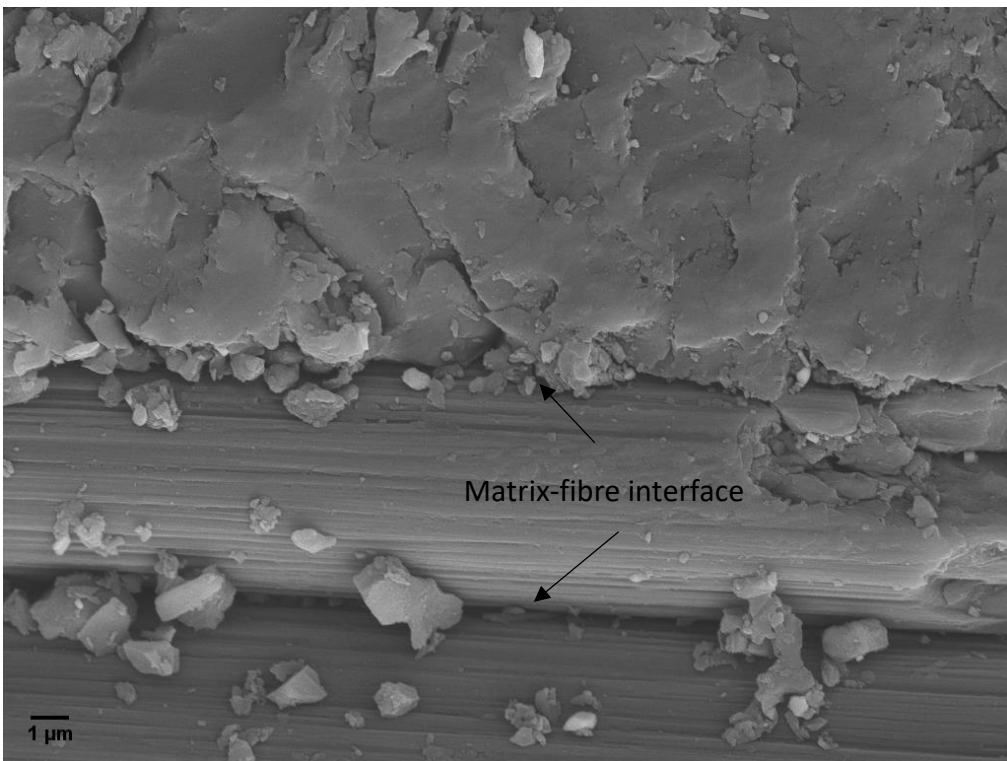


Fig. S8. SEM micrographs of un-aged twill weave surface.

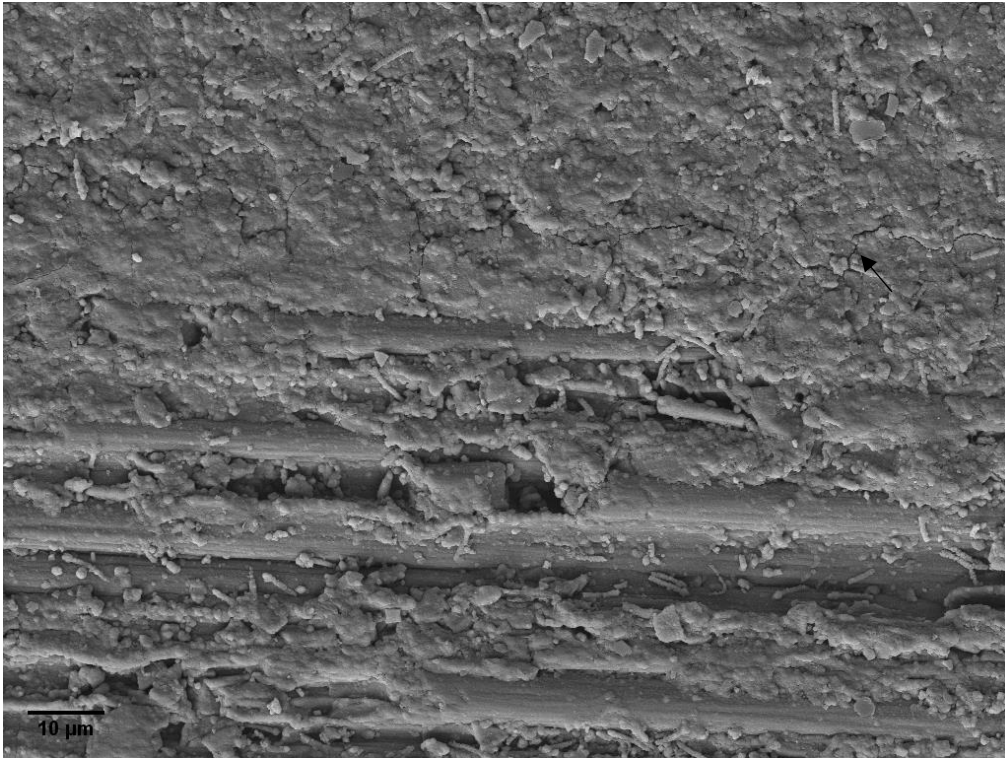


Fig. S9. SEM micrographs of aged twill weave surface.

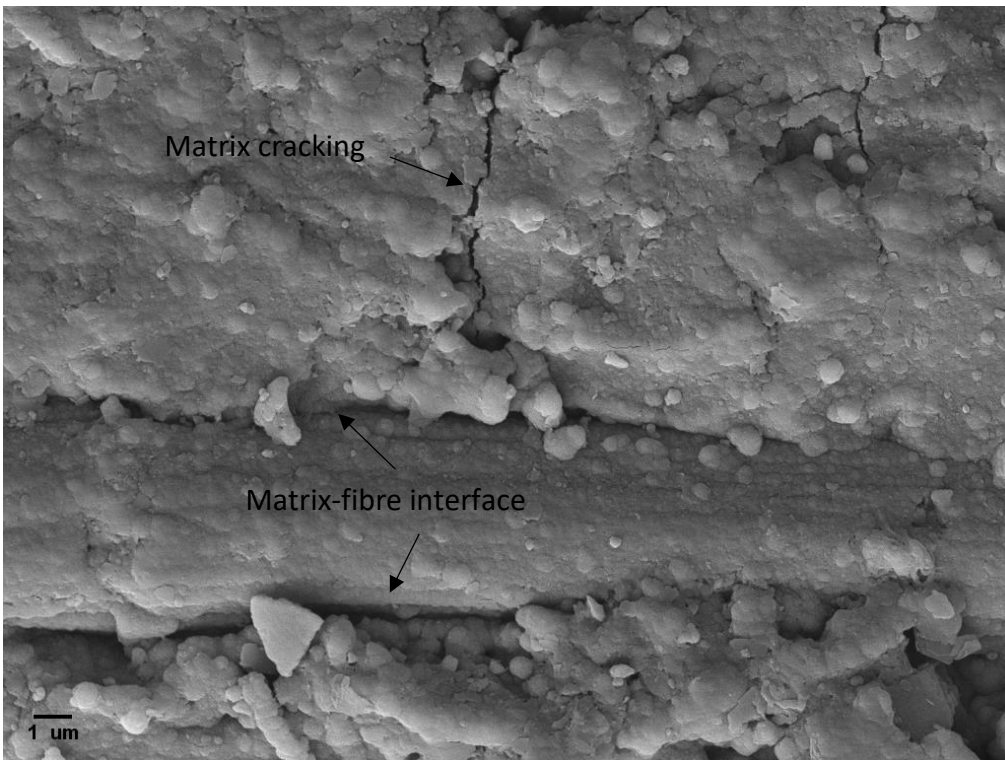


Fig. S10. SEM micrographs of aged twill weave surface.

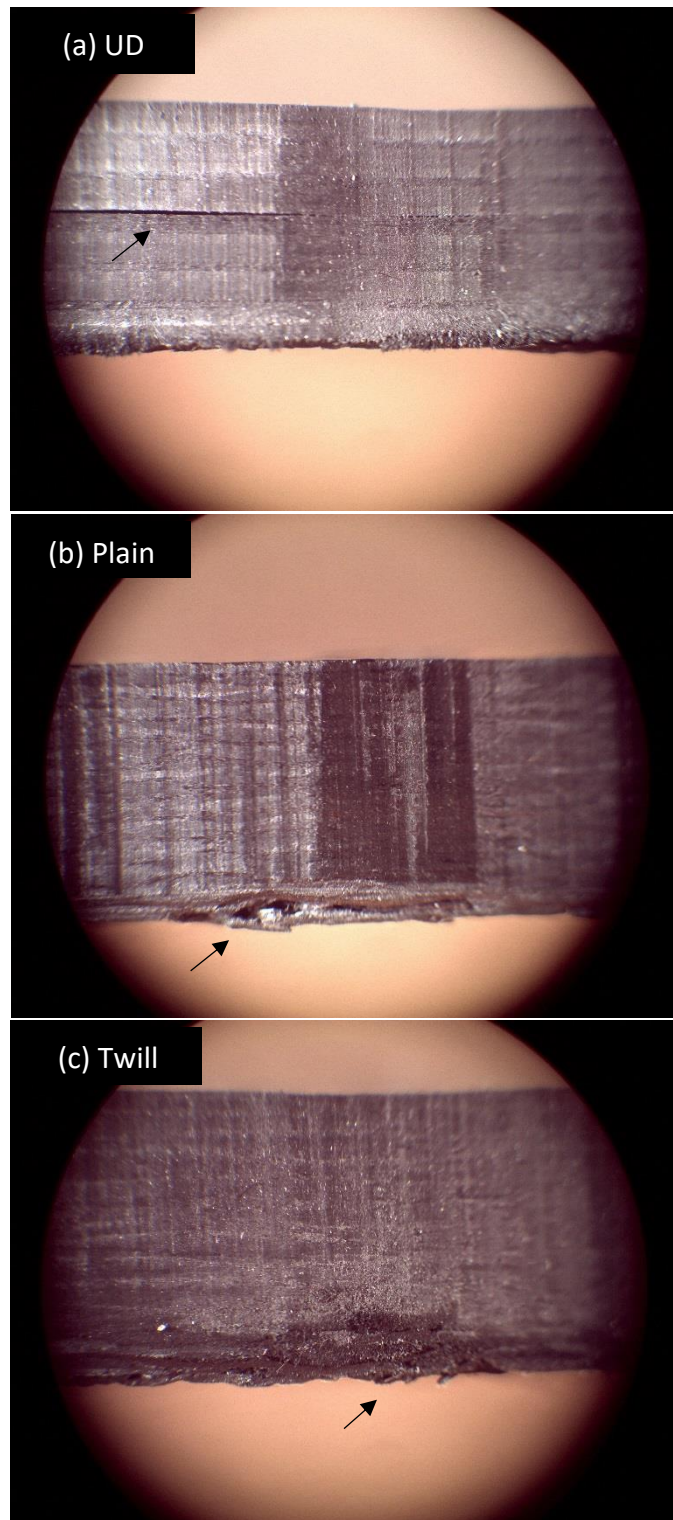


Fig. S11. IDR specimens after 20J impact; images are showing a length of 12mm (± 0.25 mm) of the middle section of the specimen's impact damage area.

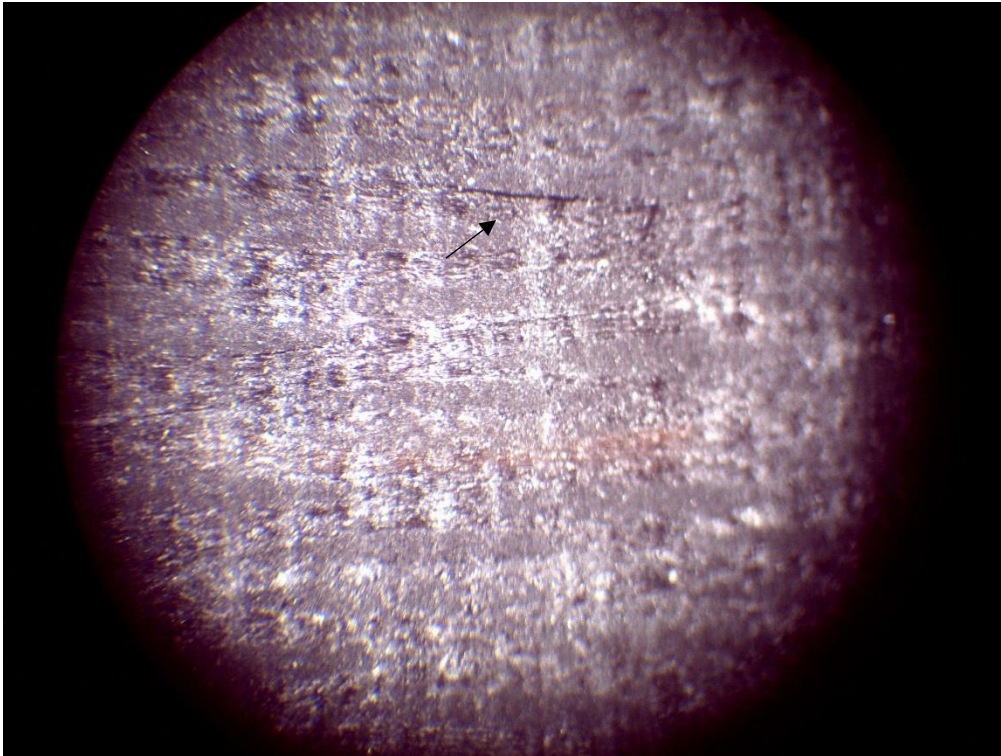


Fig. S12. Single delamination failure mode observed for 3PB un-aged plain specimens.

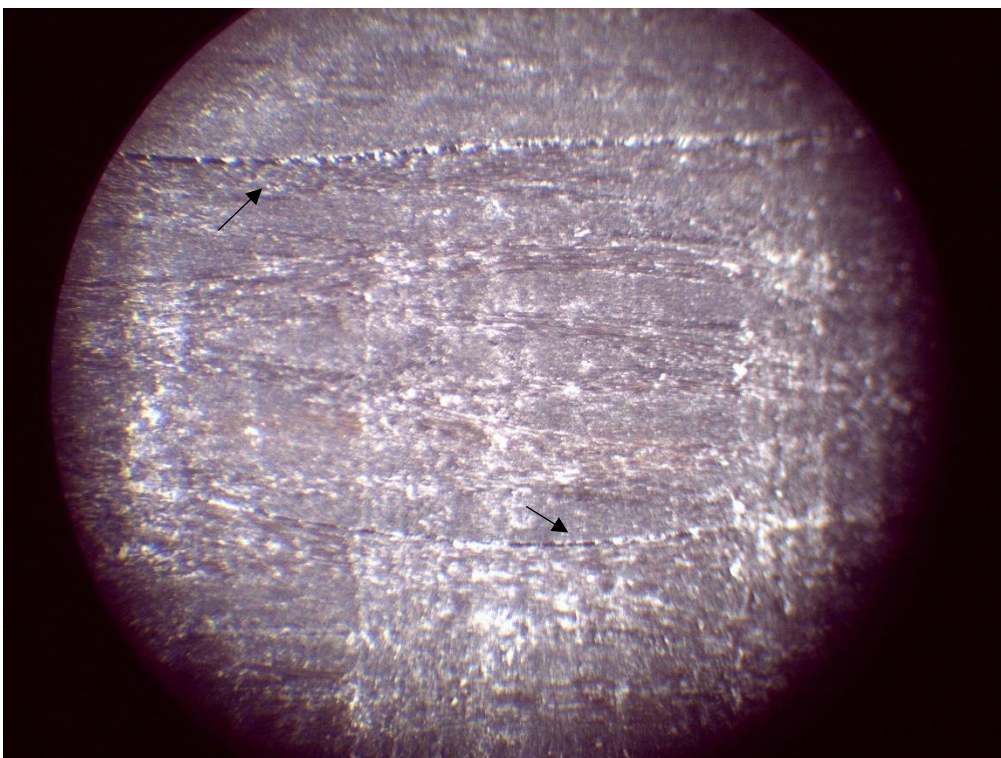


Fig. S13. Multiple delaminations failure mode observed for 3PB aged plain specimens.

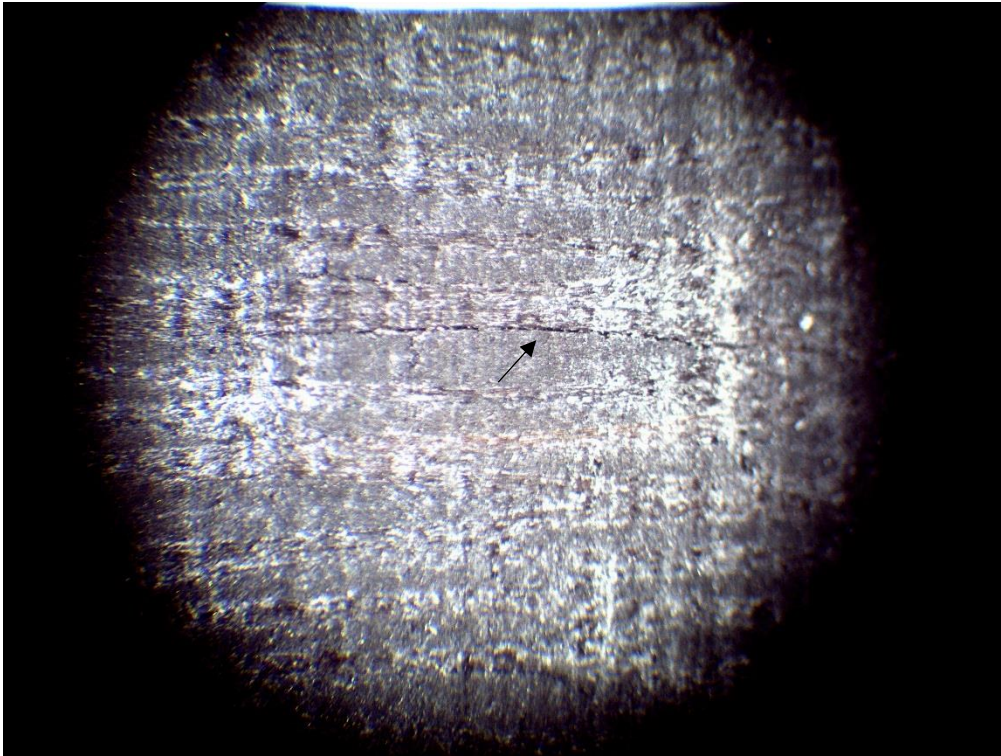


Fig. 14. Single delamination failure mode observed for 3PB un-aged twill specimens.

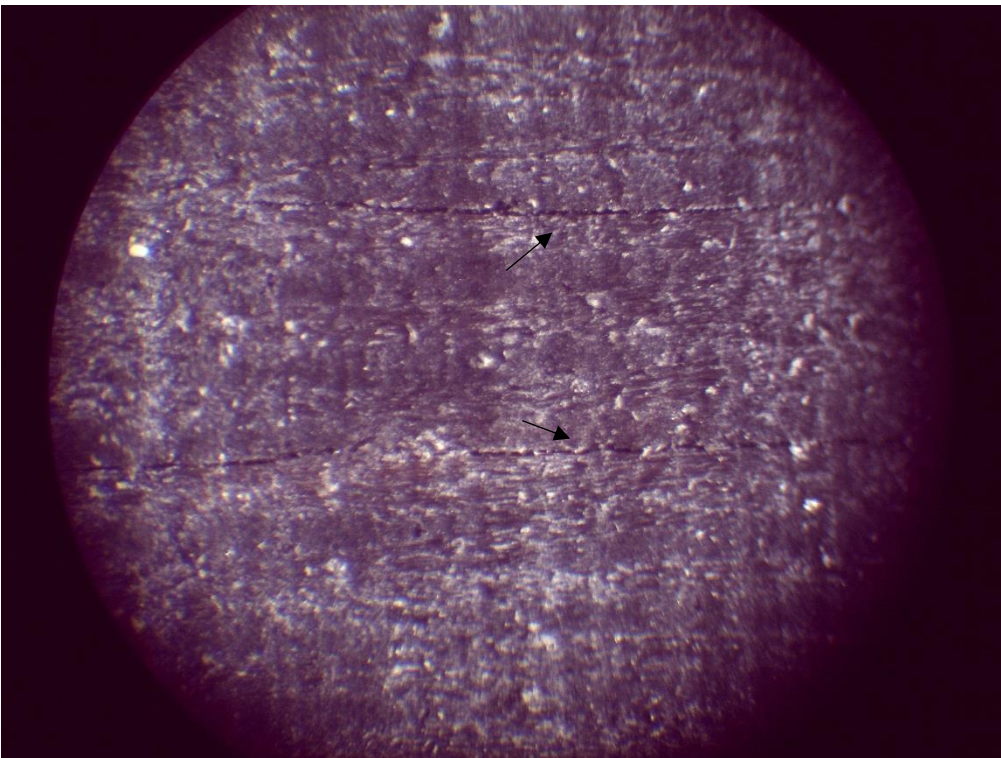


Fig. 15. Multiple delaminations failure mode observed for 3PB aged twill specimens.