

Supplementary Materials:

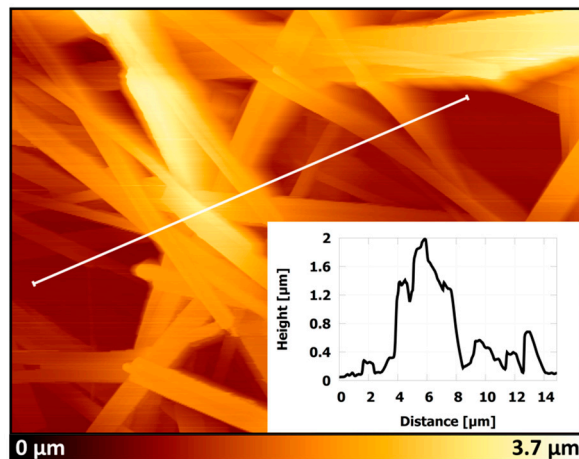


Figure S1. AFM height image of PP-G after 110 h in detergent at 95°C. Areas where the polypropylene surface is not yet covered by EBS are still present. The height profile taken along the white line shows a maximum height of 2 μm , serving as an estimate for the thickness of the resulting EBS layer.

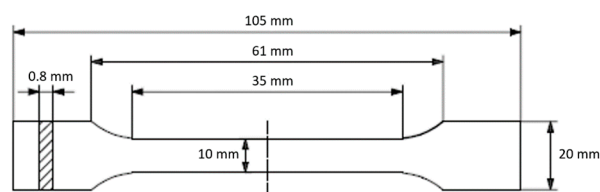


Figure S2. Dimensions of the injection moulded polypropylene test specimens type A1. Image taken from ISO 20753:2008(E).

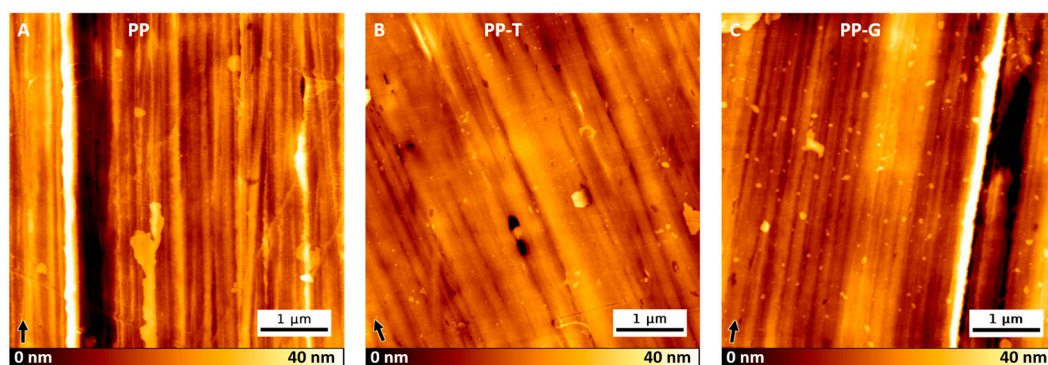


Figure S3. AFM images of the unaged samples (A) PP, (B) PP-T und (C) PP-G showing the injection moulding skin characterised by the parallel grooves. Black arrows indicate the injection direction.

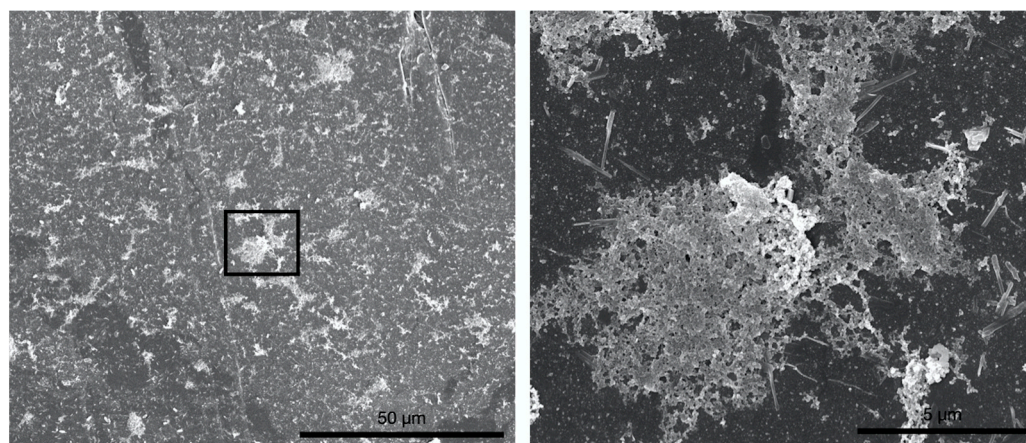


Figure S4. SEM images of a vortexed PP sample present the detachment of the biofilm, since no bacteria are present on the surface, only residues formed due to previous adhesion are visible.