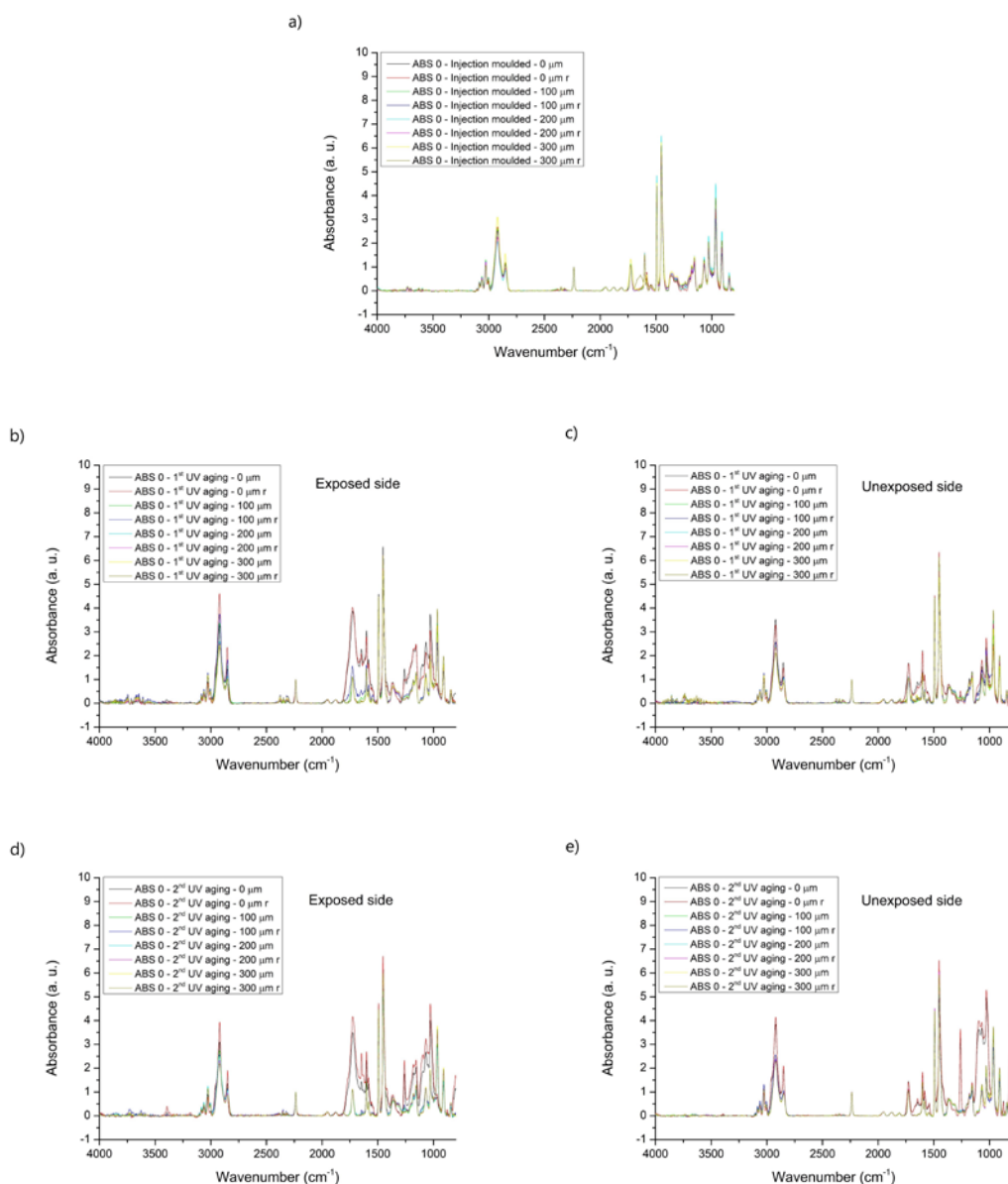


Supplementary Materials

Influence of Different Stabilization Systems and Multiple Ultraviolet A (UVA) Aging/Recycling Steps on Physicochemical, Mechanical, Colorimetric, and Thermal-Oxidative Properties of ABS

Rudinei Fiorio, Sara Villanueva Díez, Alberto Sánchez, Dagmar R. D'hooge and Ludwig Cardon



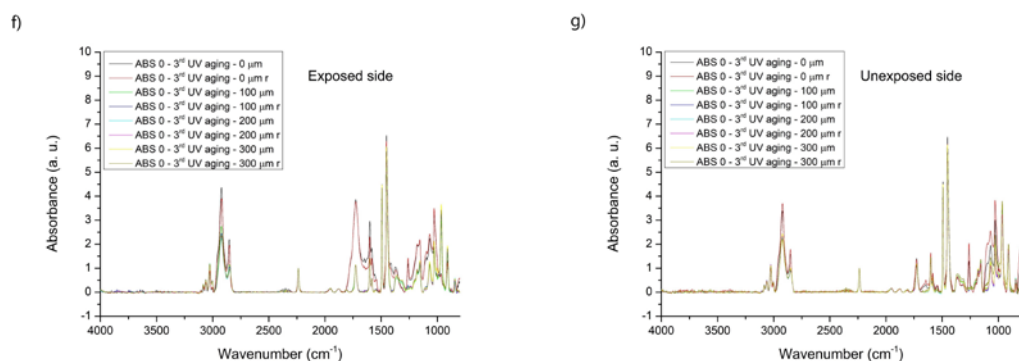
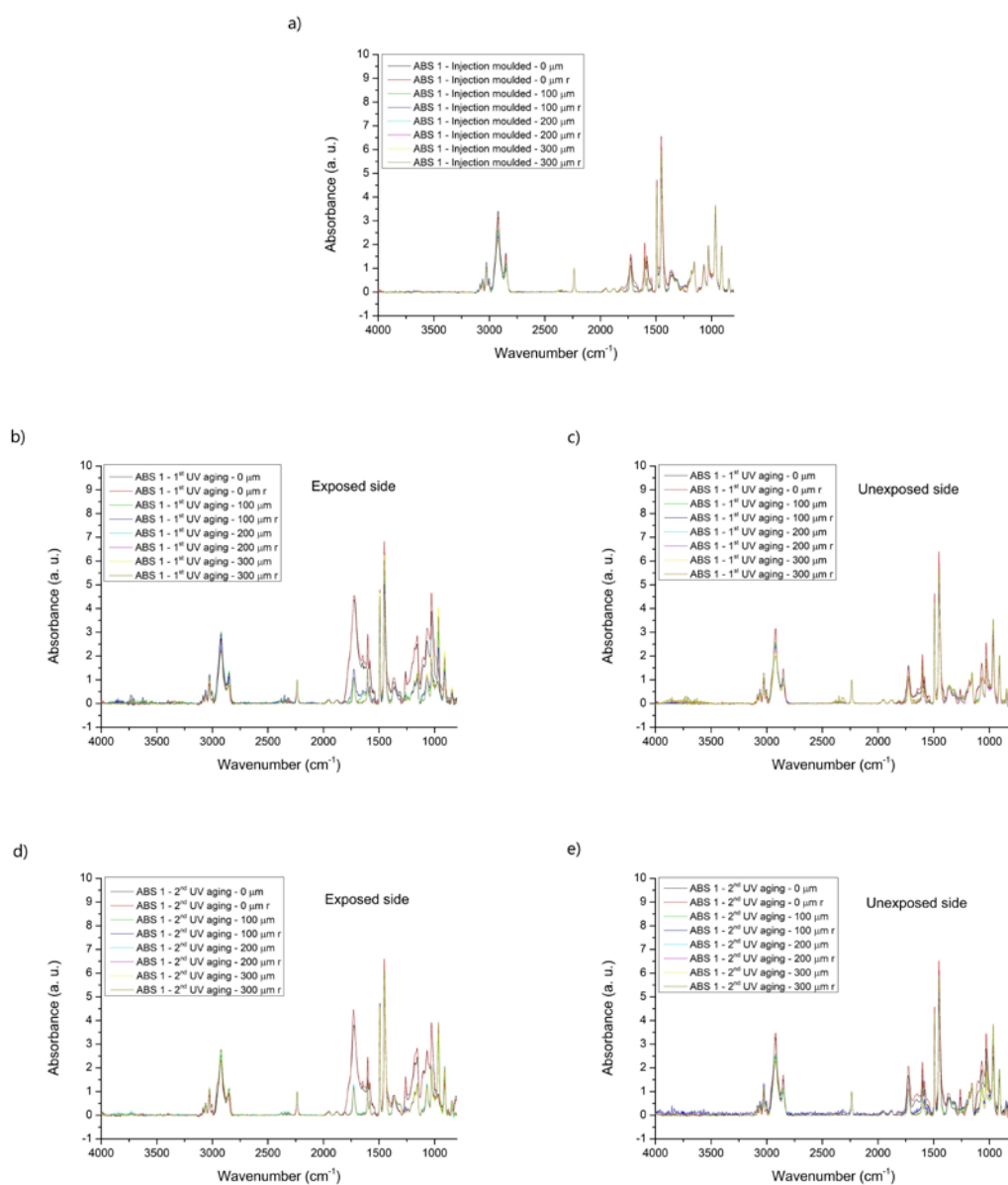


Figure S1. FTIR spectra of the sample type ABS 0. a) Injection molded; b) and c) 1st aging, UV exposed side and unexposed side, respectively; d) and e) 2nd aging, UV exposed side and unexposed side, respectively; f) and g) 3rd aging, UV exposed side and unexposed side, respectively. 'r' means repeated analysis.



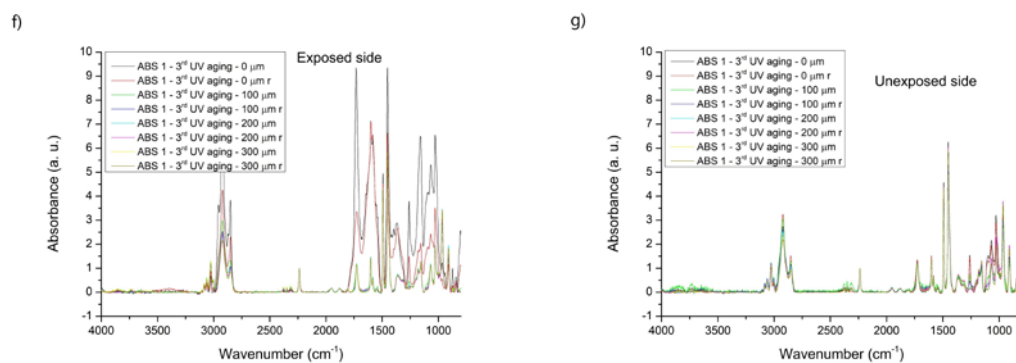
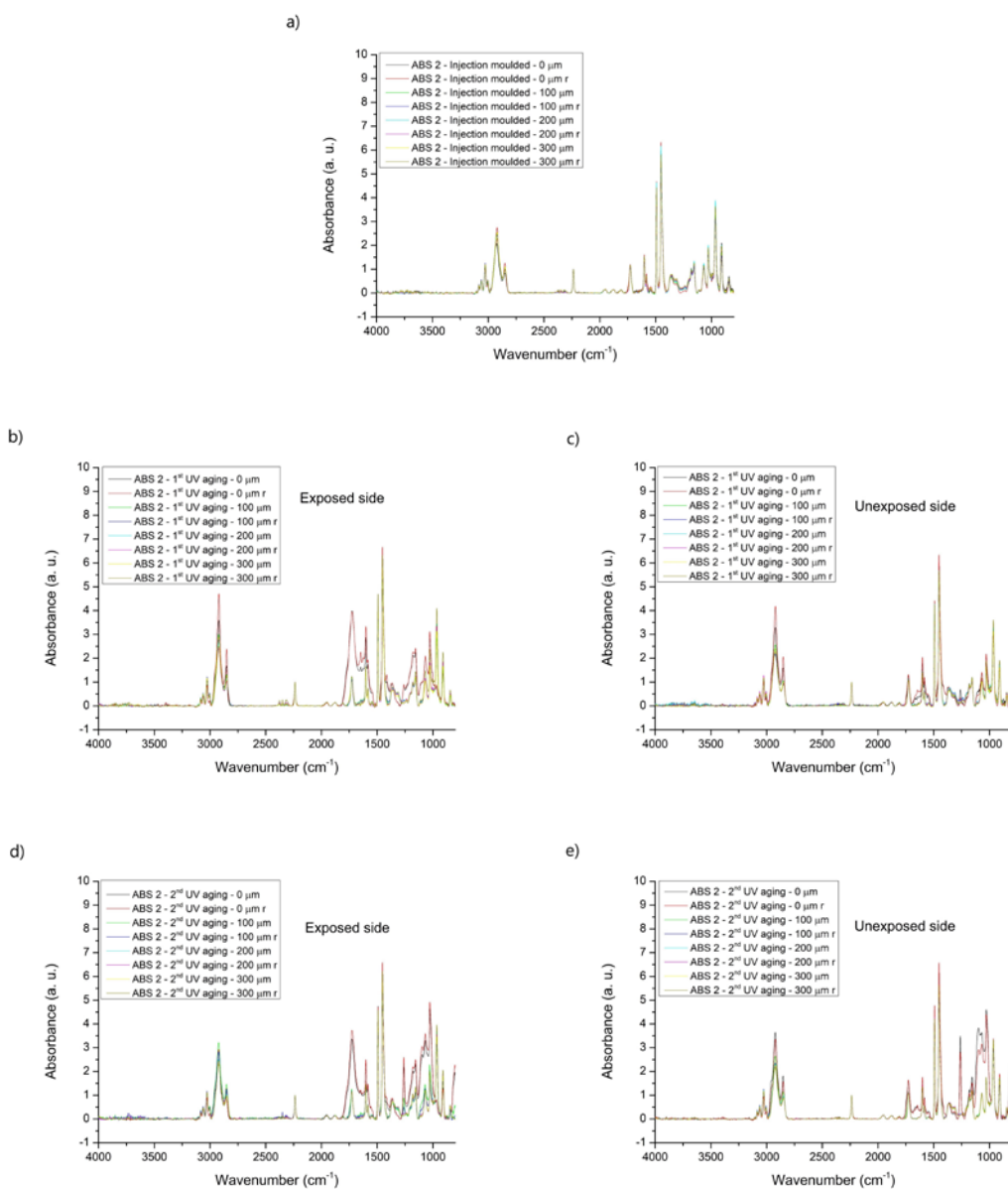


Figure S2. FTIR spectra of the sample type ABS 1. a) Injection molded; b) and c) 1st aging, UV exposed side and unexposed side, respectively; d) and e) 2nd aging, UV exposed side and unexposed side, respectively; f) and g) 3rd aging, UV exposed side and unexposed side, respectively. 'r' means repeated analysis.



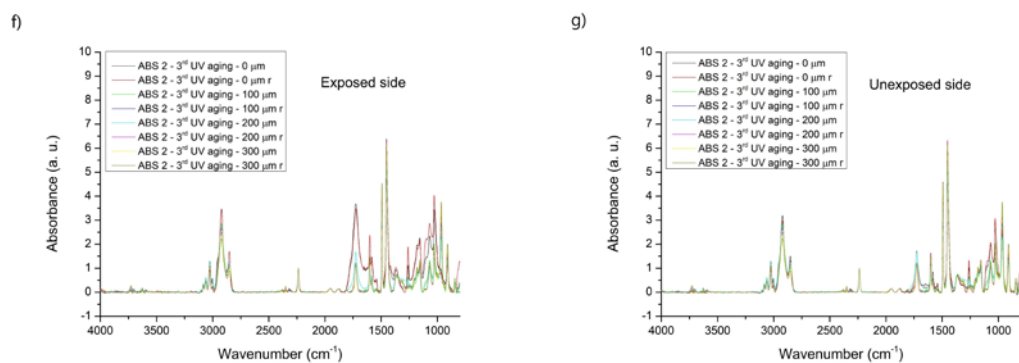
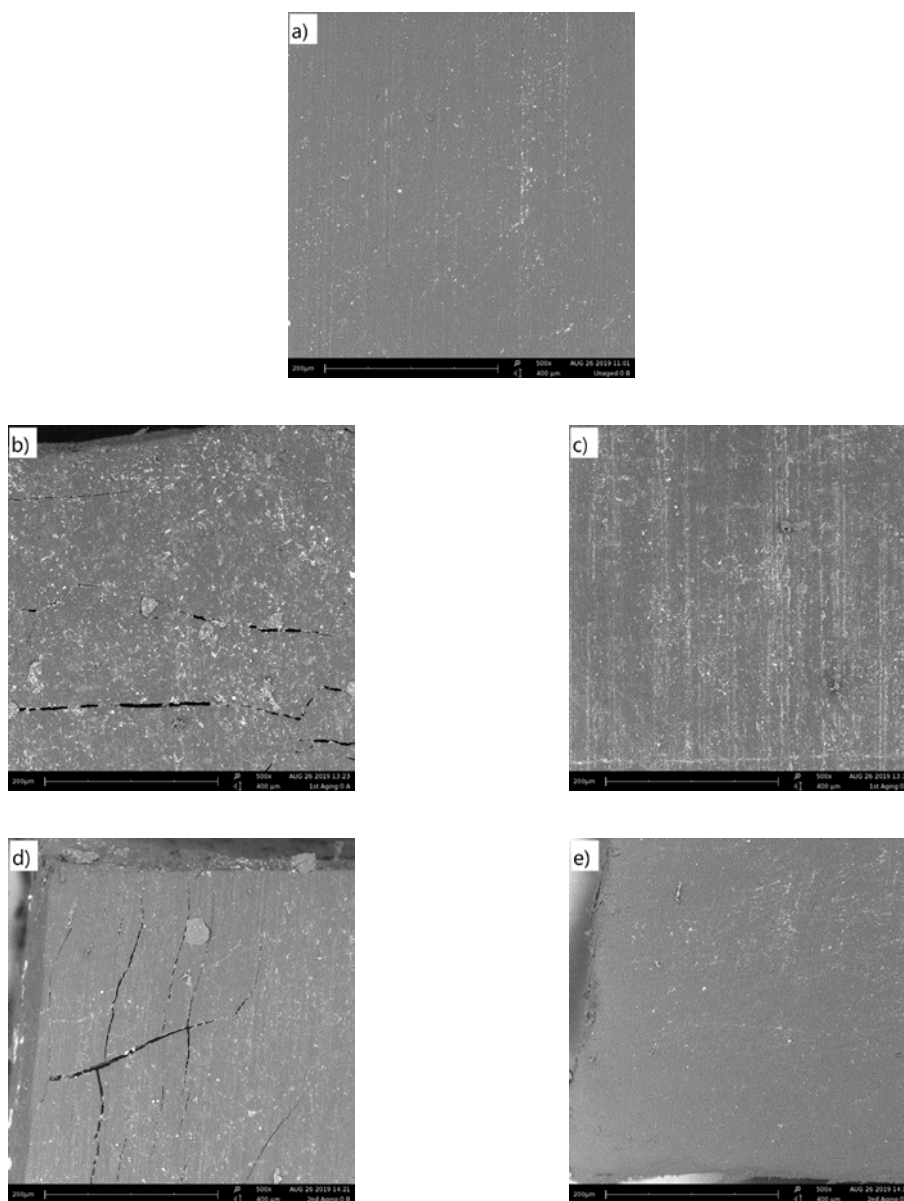


Figure S3. FTIR spectra of the sample type ABS 2. a) Injection molded; b) and c) 1st aging, UV exposed side and unexposed side, respectively; d) and e) 2nd aging, UV exposed side and unexposed side, respectively; f) and g) 3rd aging, UV exposed side and unexposed side, respectively. 'r' means repeated analysis.



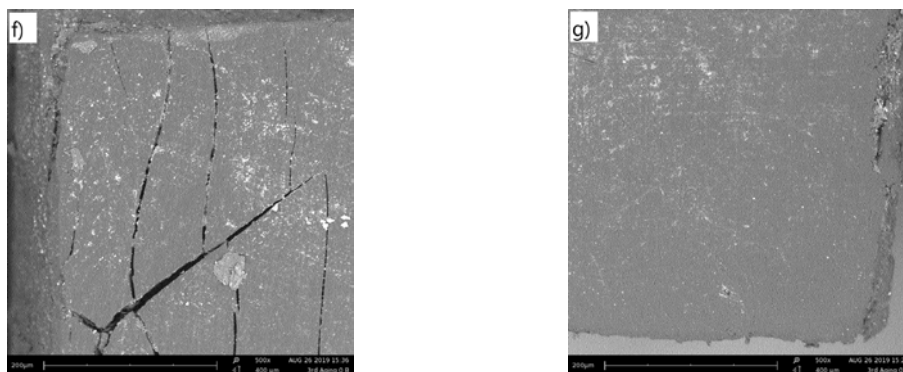
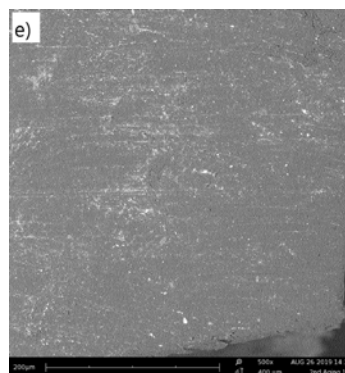
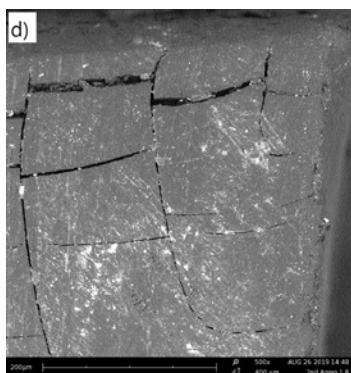
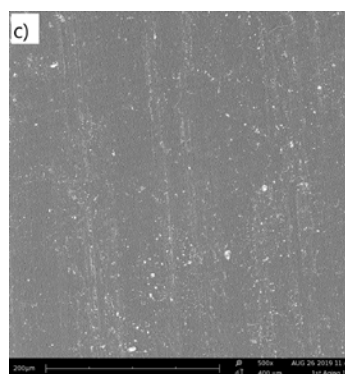
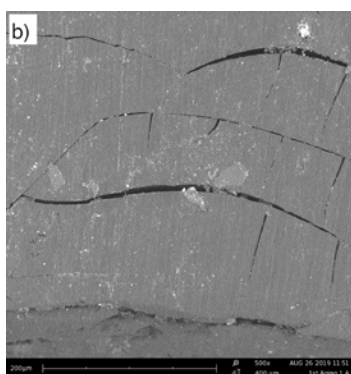
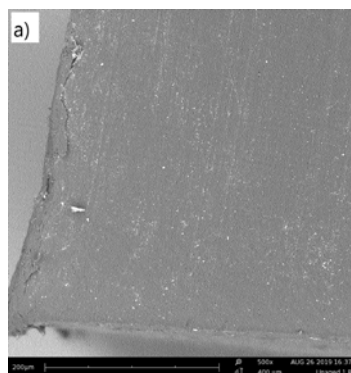


Figure S4. SEM images of the sample type ABS 0. **a)** Injection molded (unaged); **b)** and **c)** 1st aging, UV exposed side and unexposed side, respectively; **d)** and **e)** 2nd aging, UV exposed side and unexposed side, respectively; **f)** and **g)** 3rd aging, UV exposed side and unexposed side, respectively.



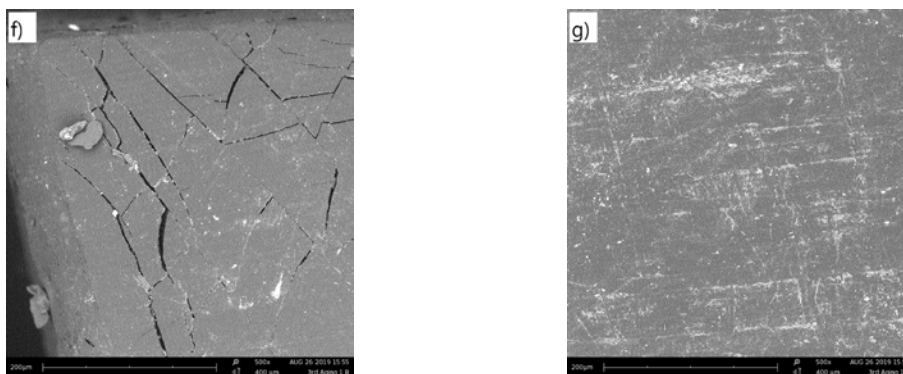
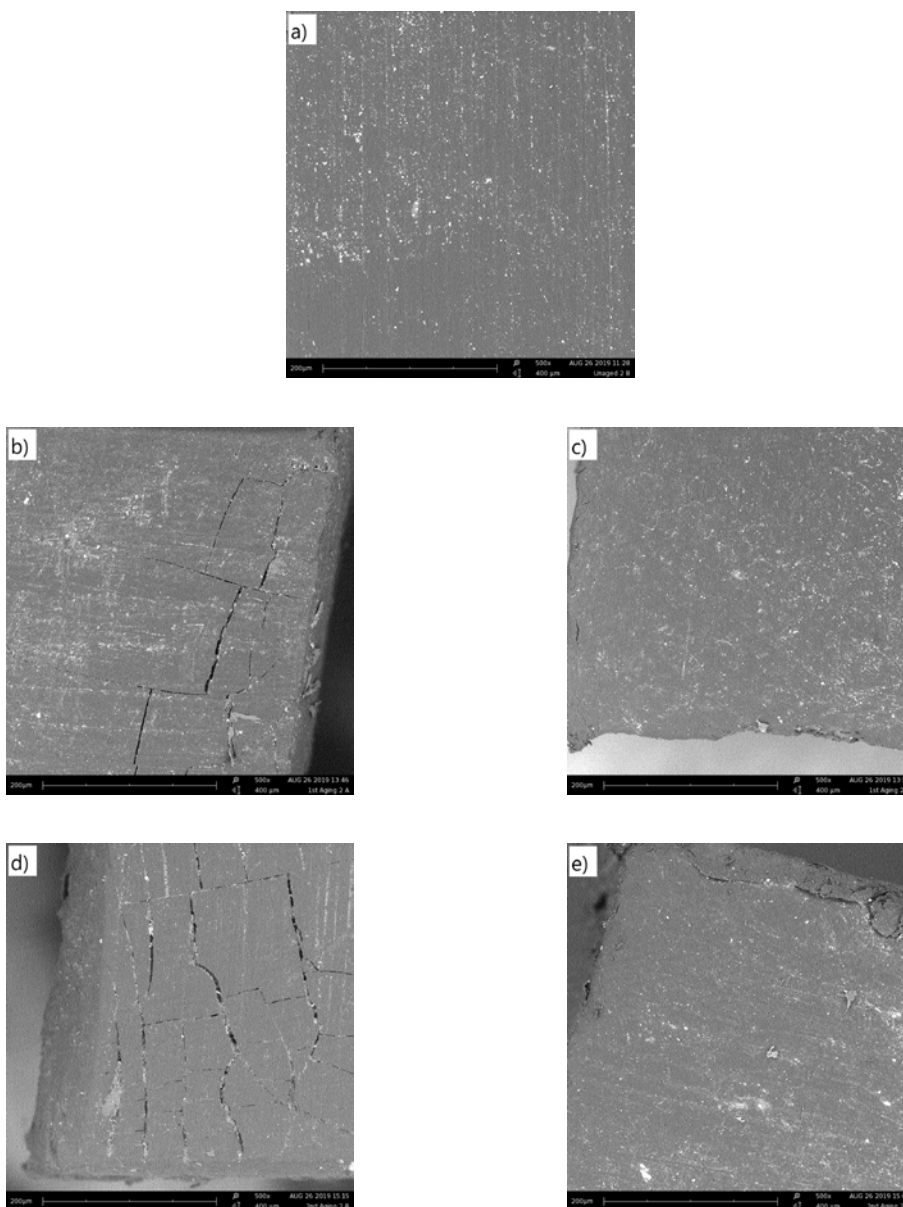


Figure S5. SEM images of the sample type ABS 1. a) Injection molded (unaged); b) and c) 1st aging, UV exposed side and unexposed side, respectively; d) and e) 2nd aging, UV exposed side and unexposed side, respectively; f) and g) 3rd aging, UV exposed side and unexposed side, respectively.



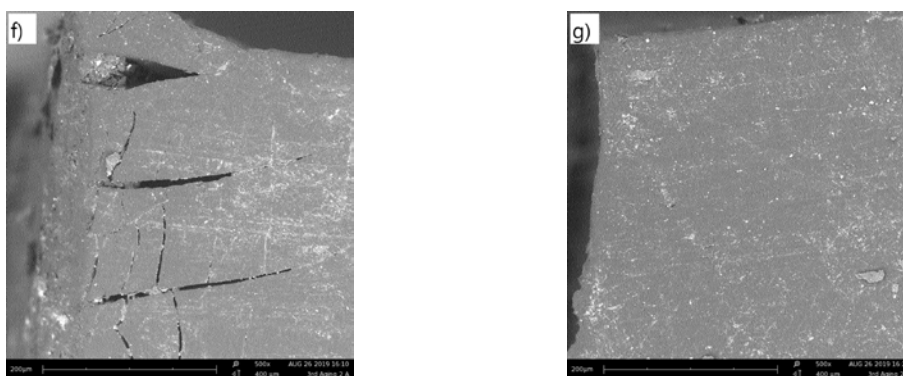
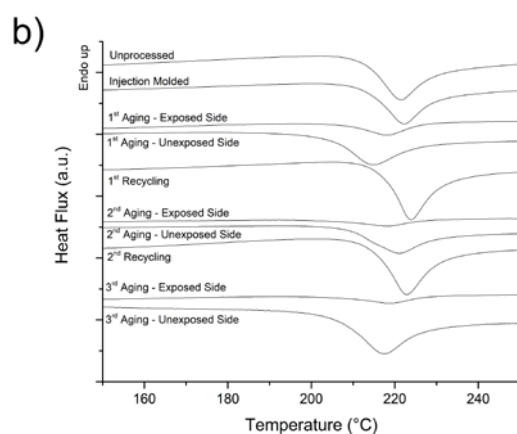
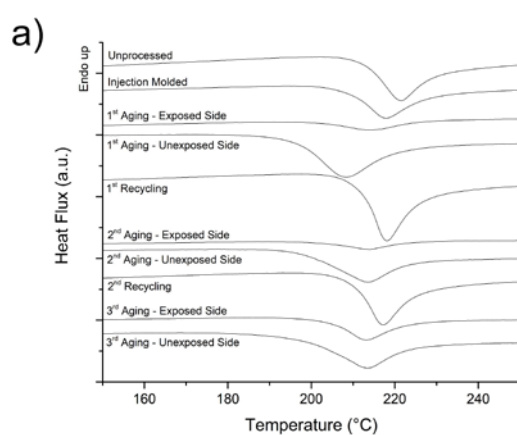


Figure S6. SEM images of the sample type ABS 2. a) Injection molded (unaged); b) and c) 1st aging, UV exposed side and unexposed side, respectively; d) and e) 2nd aging, UV exposed side and unexposed side, respectively; f) and g) 3rd aging, UV exposed side and unexposed side, respectively.



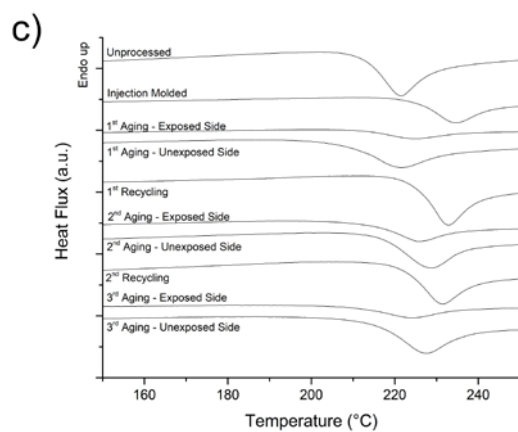


Figure S7. Thermal oxidative resistance of the samples. **a)** Heat flux curves of the sample type ABS 0; **b)** Heat flux curves of the sample type ABS 1; **c)** Heat flux curves of the sample type ABS 2.



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