Supplementary Materials

The Effect of Silica-Filler on Polyurethane Adhesives Based on Renewable Resource for Wood Bonding

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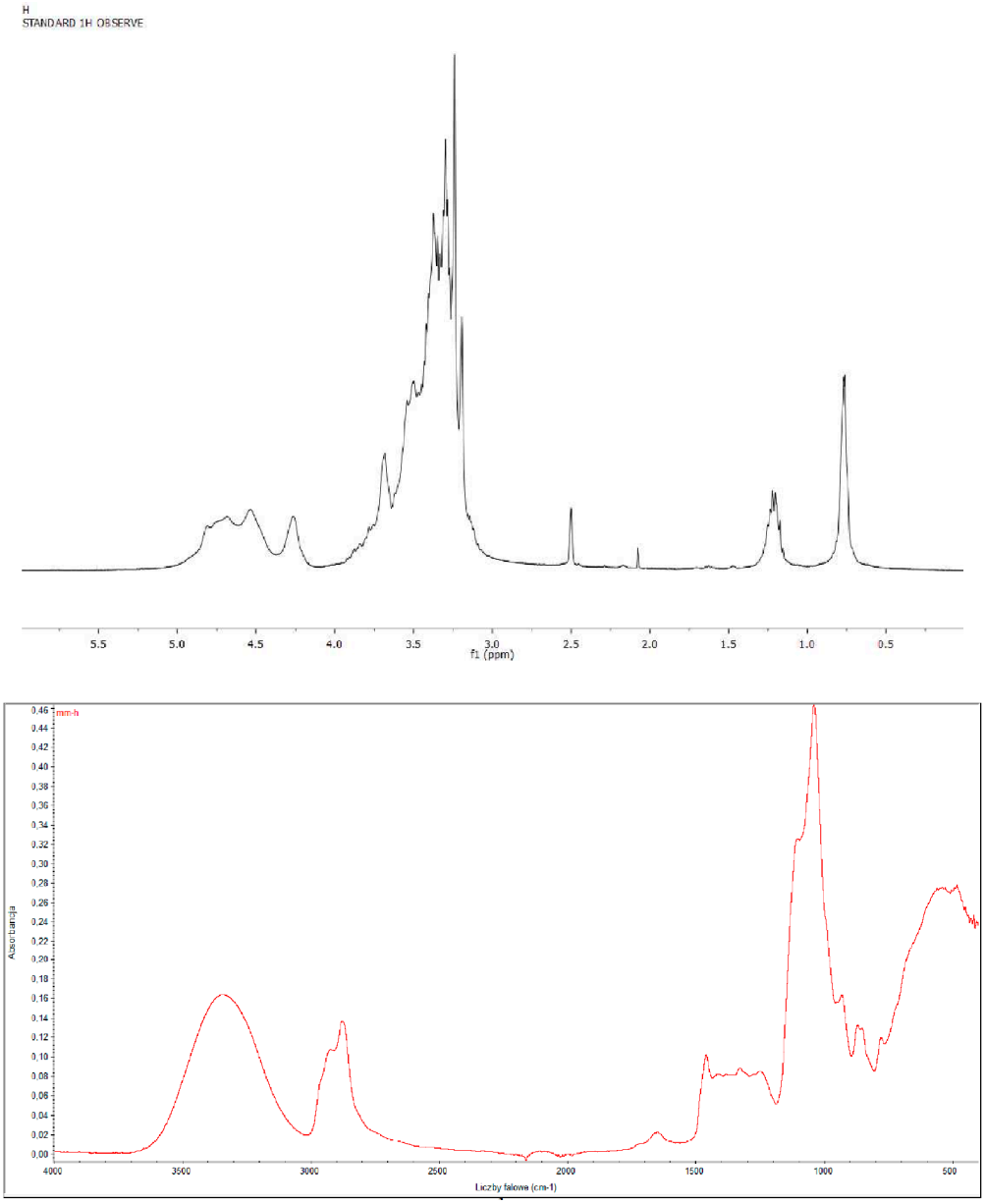


Figure S1. 1H NMR of the studied polyglycerol: (400 MHz, D2O), δ (ppm): 4.80-3.90 (8H, H2O, OH), 3.75–3.10 (34H, polyether backbone), 1.25 (CH2CH3), 0.75 (CH2CH3) (upper image); FTIR of the studied polyglycerol: (film); cm-1 = 3350 (OH), 2900 and 2870 (CH & CH2), 1070 (–O-C-O–) (lower image).

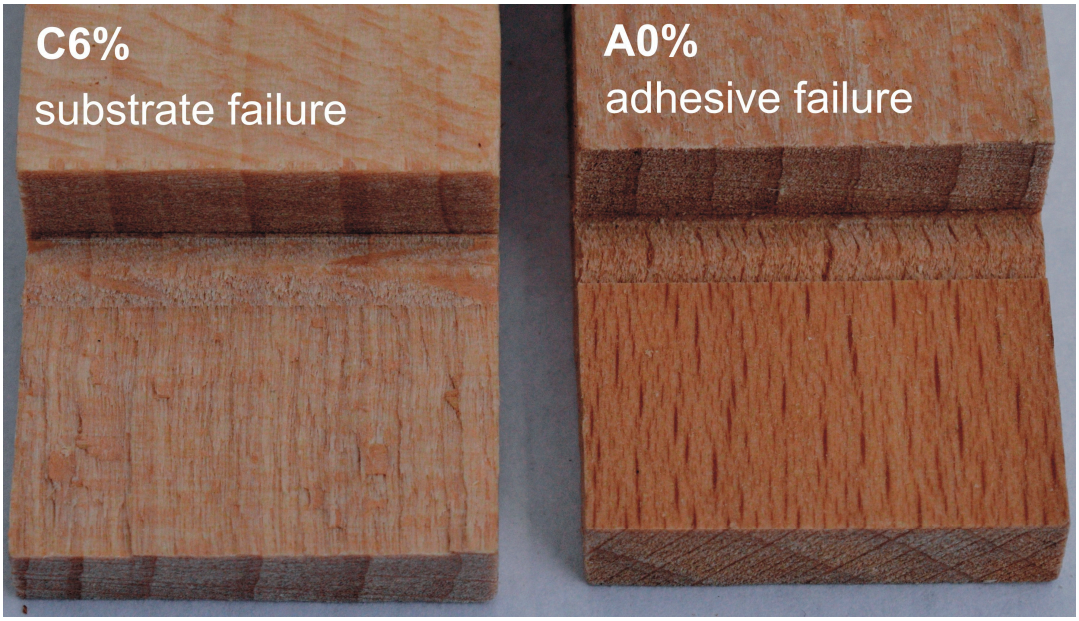
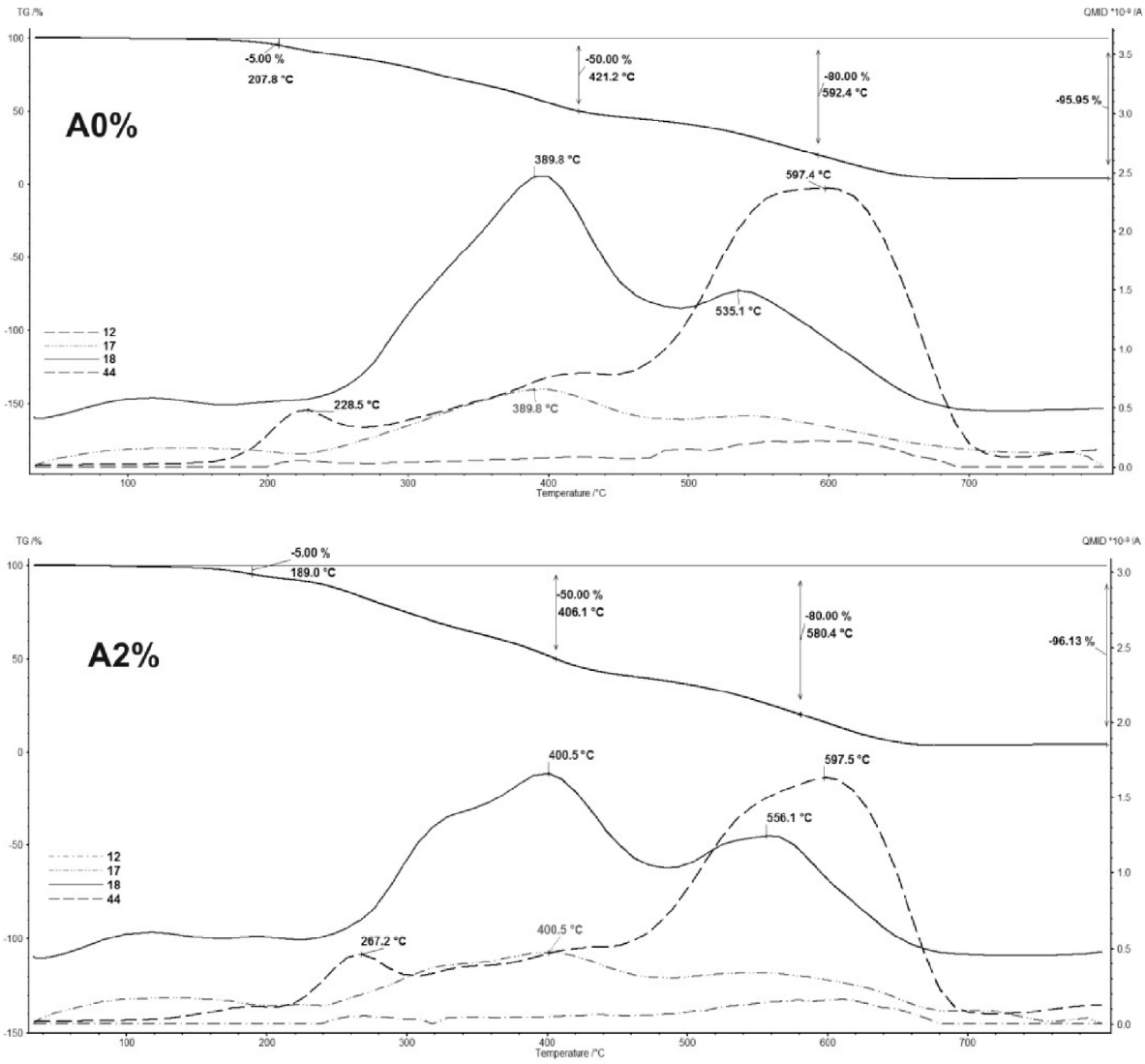


Figure 2. Representative adhesive and substrate failure.



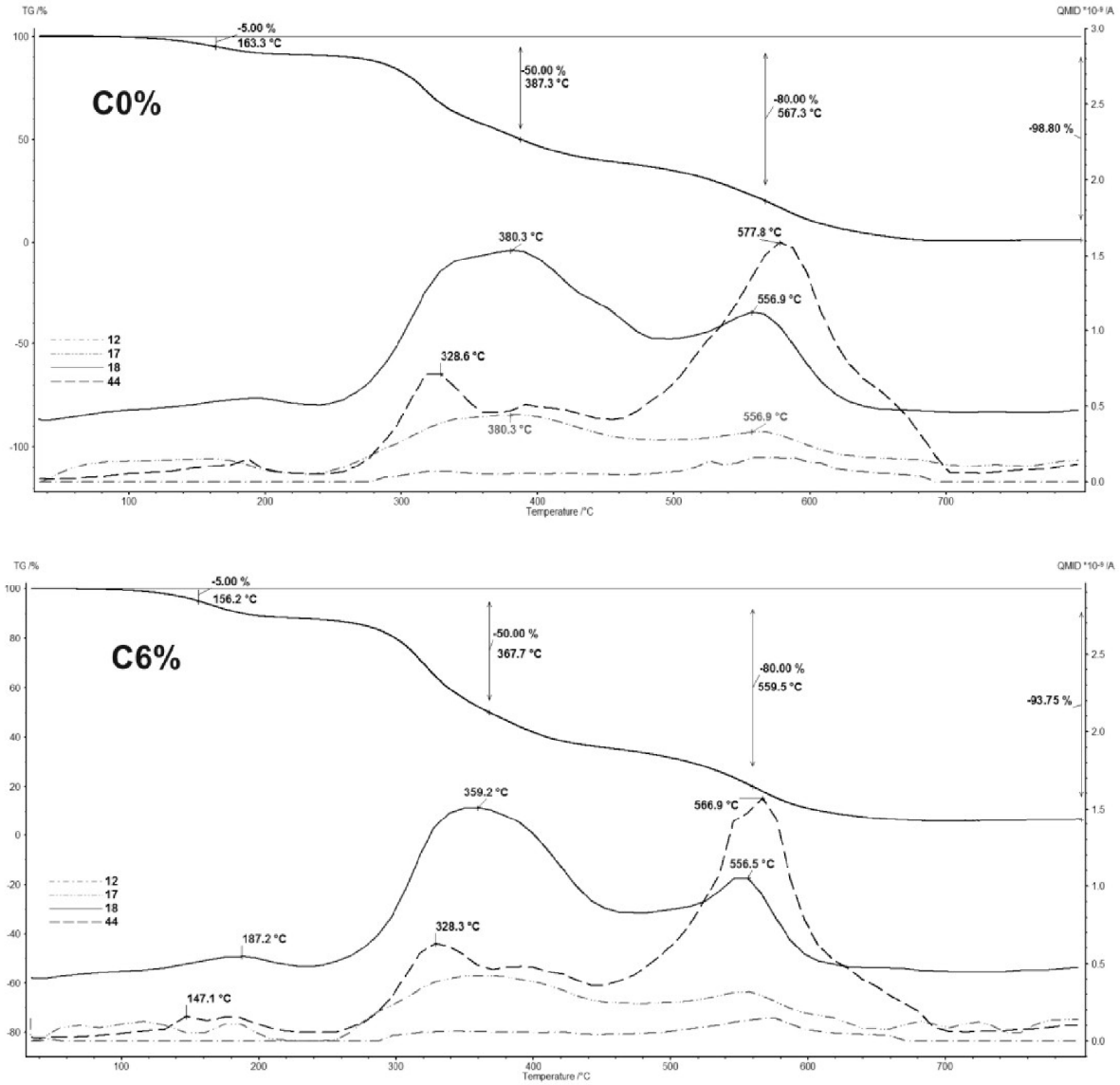


Figure 3. TG-coulped MS curves of the studied PURs.