Supporting information

MECHANICAL AND CHEMICAL PROPERTIES OF ROSIN-BASED HYBRID RESINS

Academician Alexandru T. BALABAN at his 95th anniversary

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Supporting Information

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[1]H NMR experiments

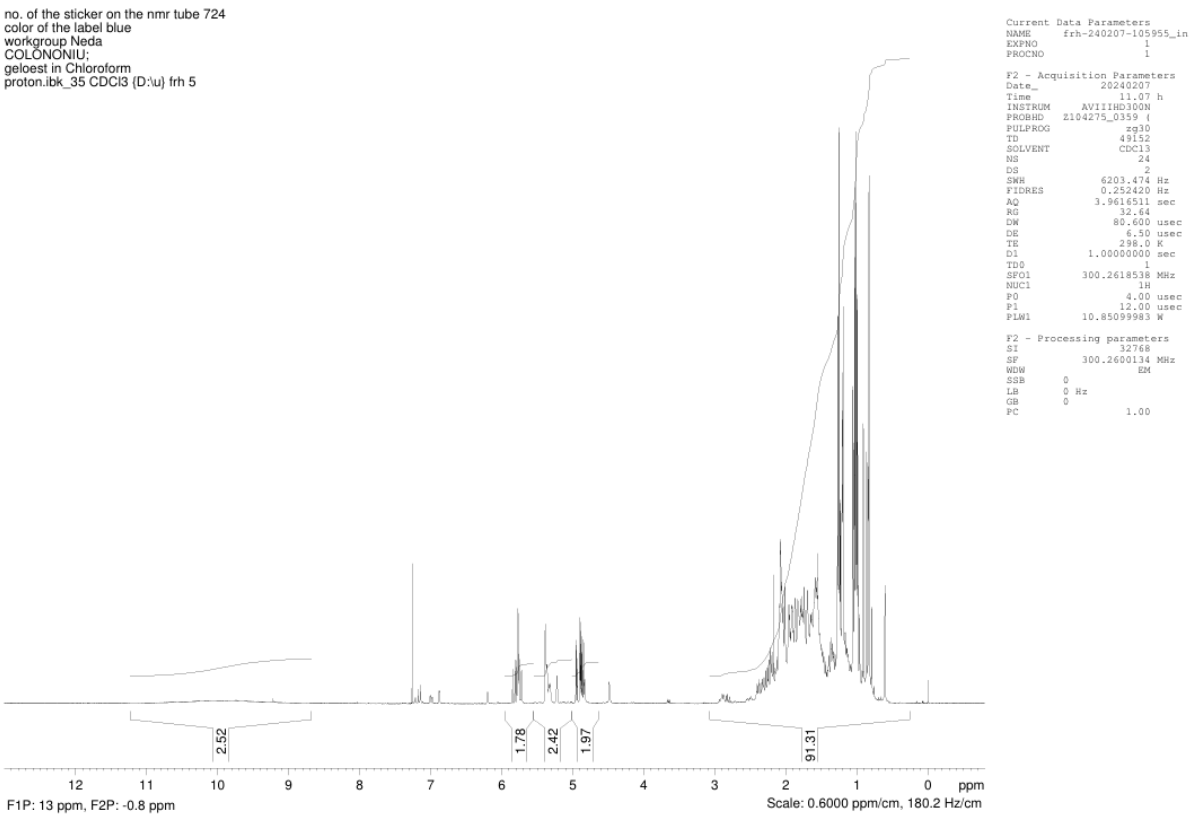

Figure S1: [1]H NMR experiment for rosin. It shows beside signals for aliphatic and vinylic protons (δ = 5.9-5.7 ppm, 5.4-5.2 ppm, 5.0-4.8 ppm the carboxylic proton (δ = 9.95ppm) as a broad singlet.

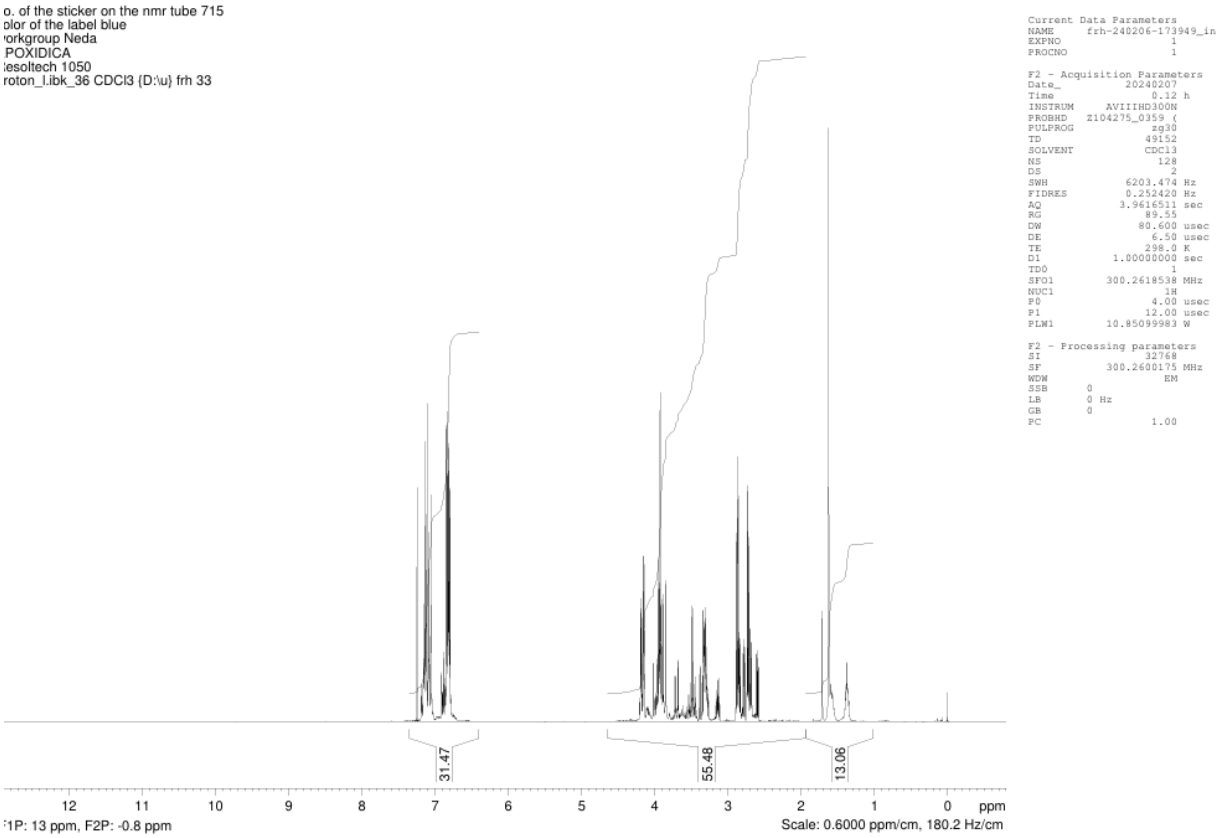

Figure S2: ^{1}H NMR experiment of the epoxy compound signals for the 1,4-substituted aryl units are clearly visible (δ = 7.2-7.05 ppm, 6.9-6.8 ppm).

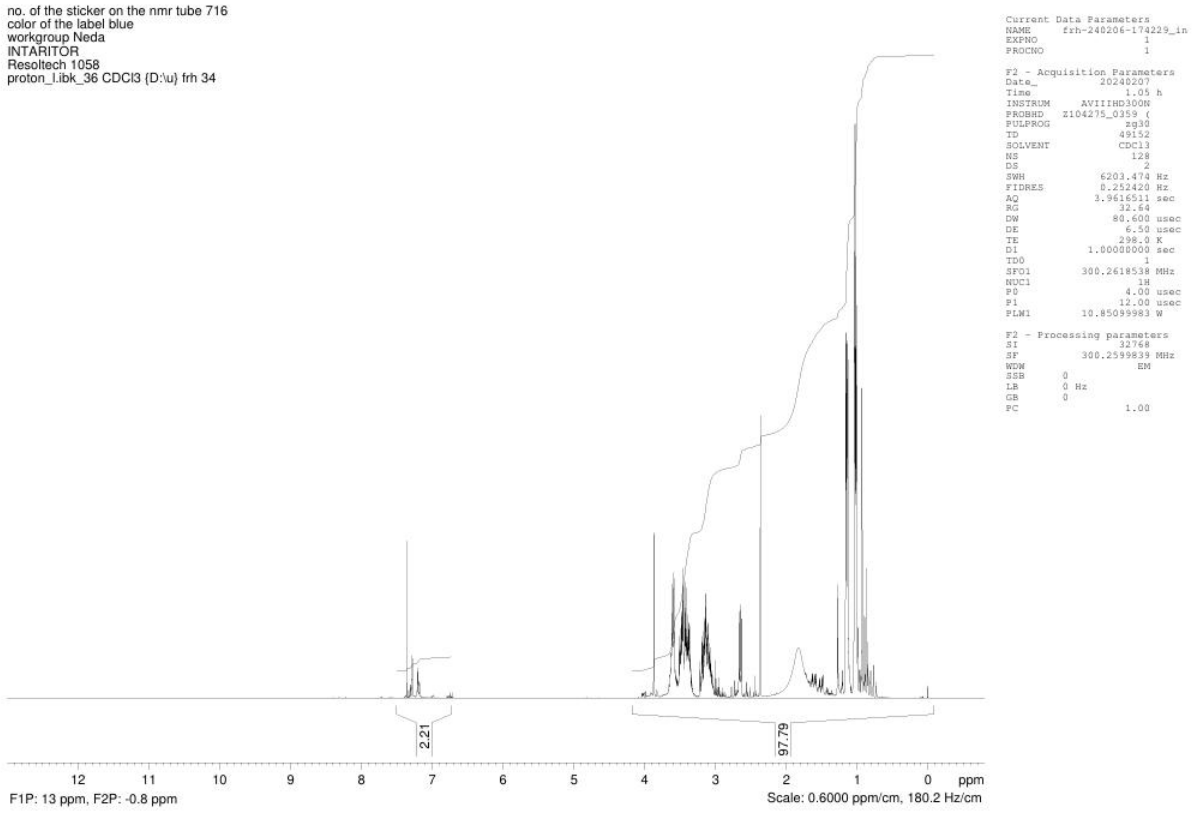

Figure S3: ^{1}H NMR experiment for the hardener, Resoltech 1055, has a broad singlet which can be assigned to the (free) amino groups (δ = 1.83 ppm). Furthermore, the hardener has signals at δ = 4.0-2.5 ppm and 1.25-0.75 ppm.

Infrared spectroscopy

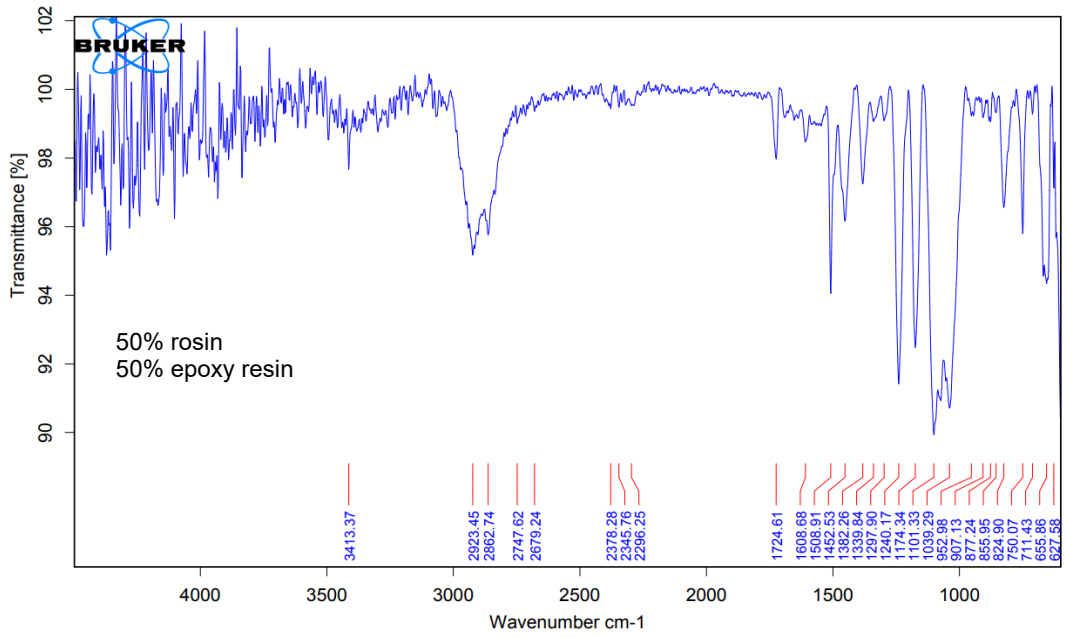

Figure. S4. IR spectra of composite of a ratio of 50% rosin and 50% epoxy resin.

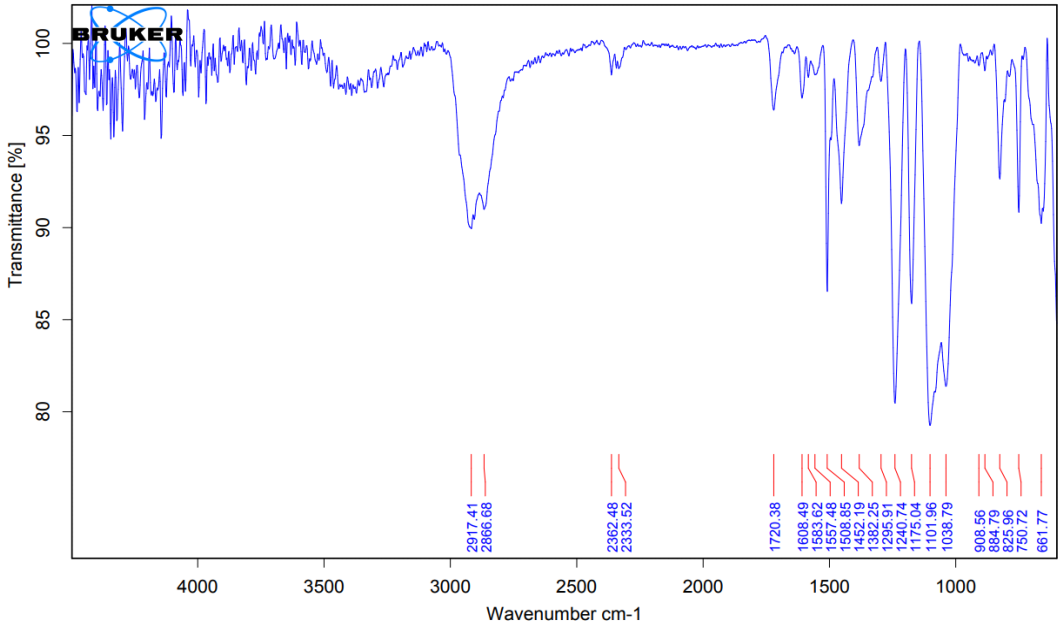

Figure. S5. IR spectra of composite of a ratio of 55% rosin and 45% epoxy resin.

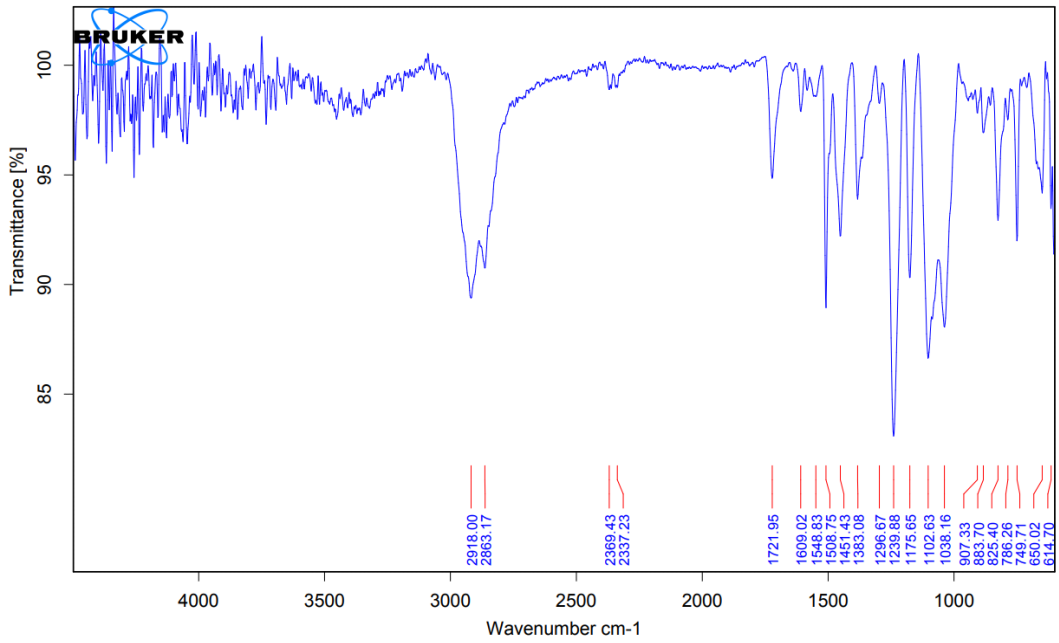

Figure. S6. IR spectra of composite of a ratio of 60% rosin and 40% epoxy resin.

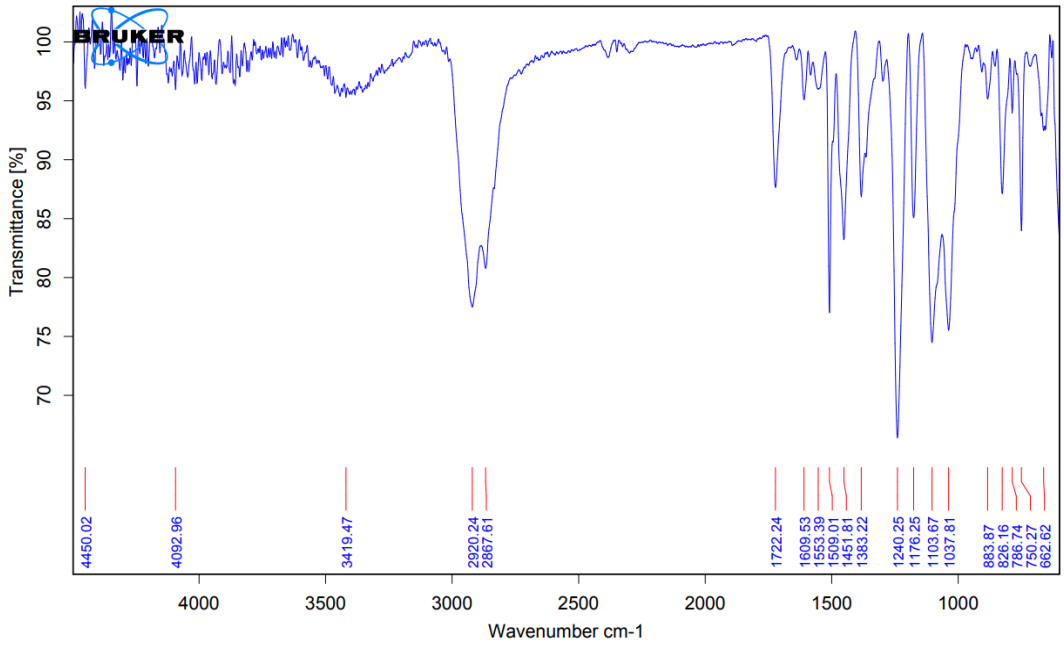

Figure. S7. IR spectra of composite of a ratio of 65% rosin and 35% epoxy resin.