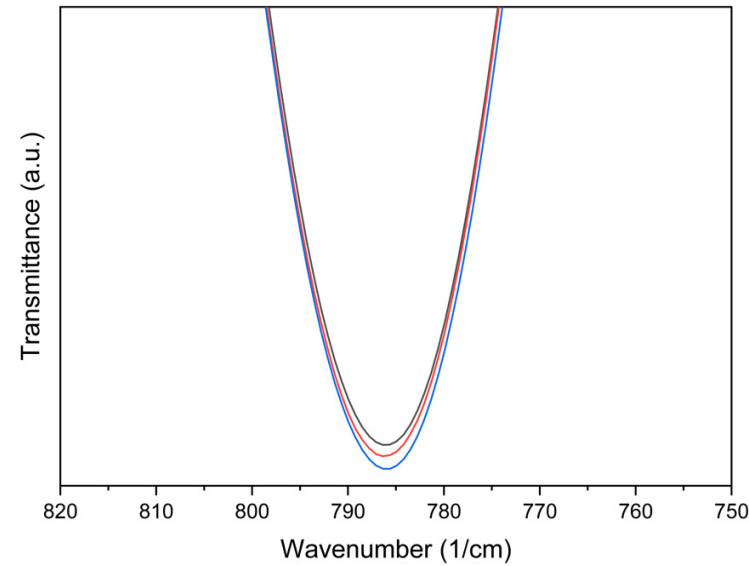
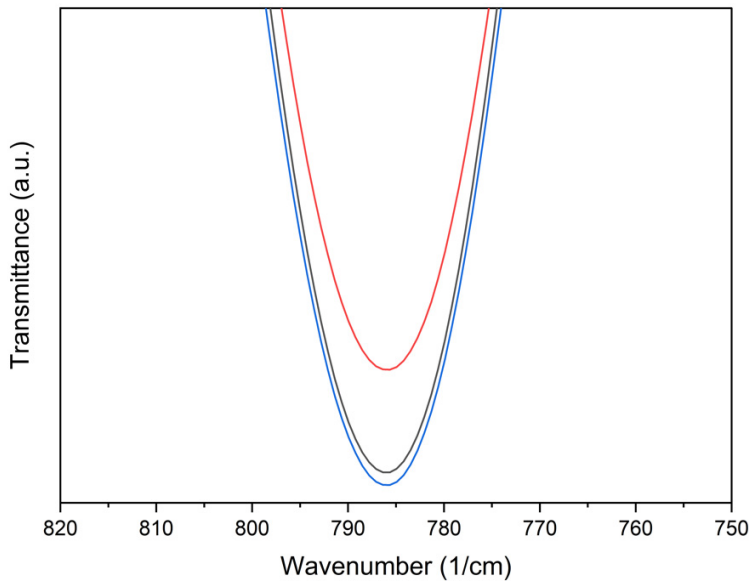


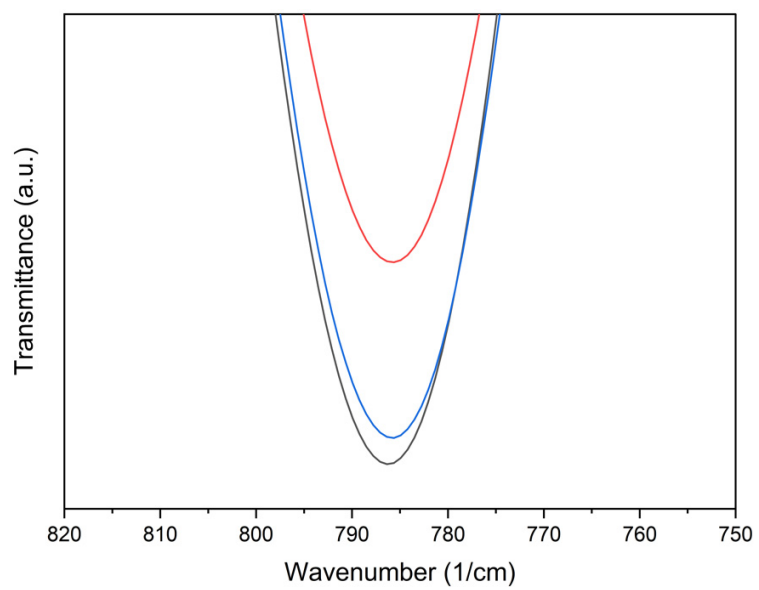
Supplementary materials



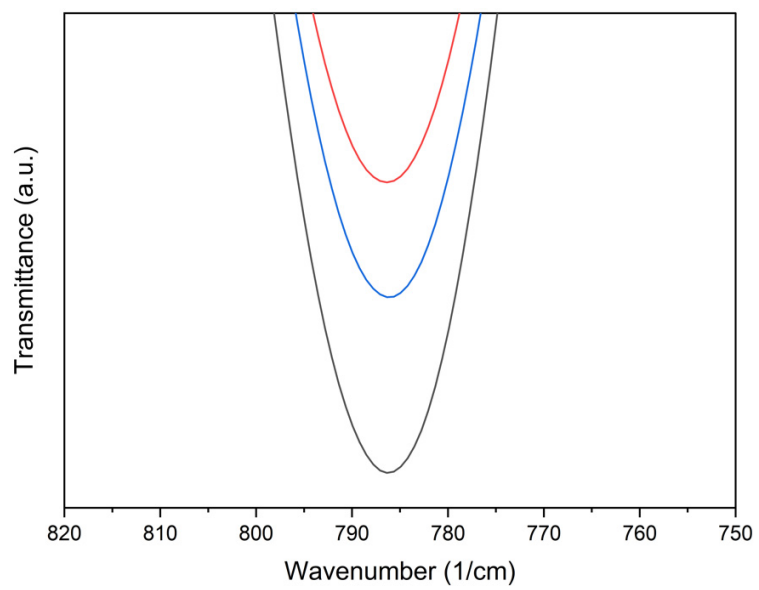
(a)



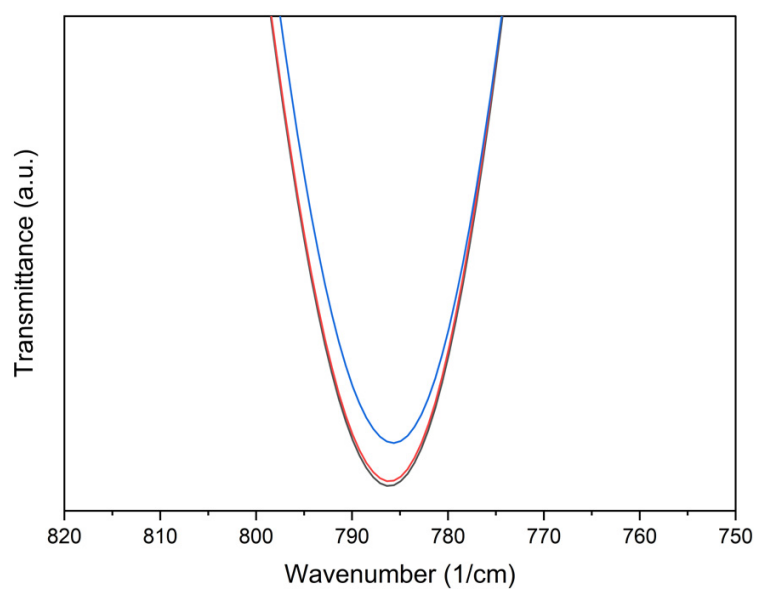
(b)



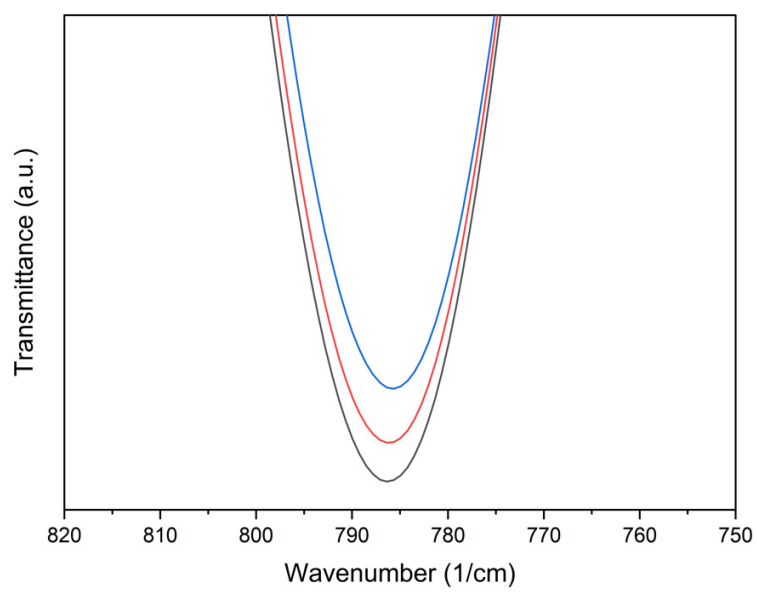
(c)



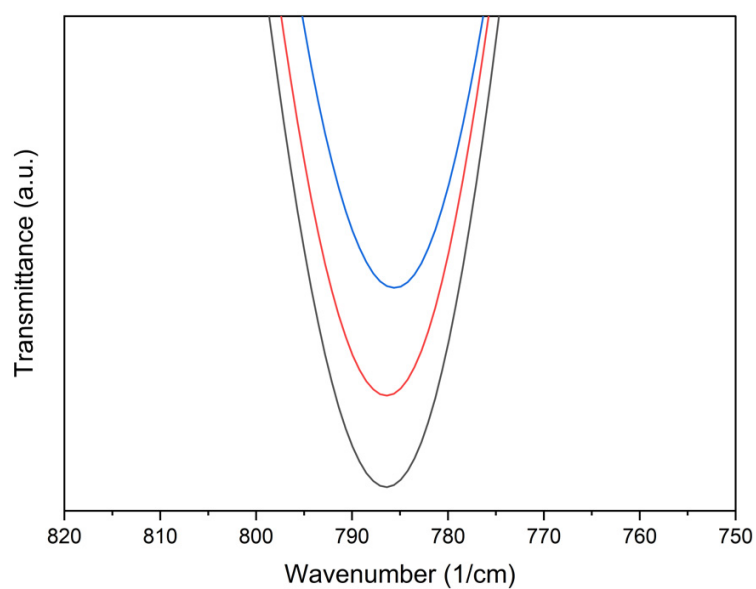
(d)



(e)



(f)



(g)  
Figure S1. IR spectra of the obtained materials in the Si-CH<sub>3</sub> stretching band: reference – a, T5 – b, T10 – c, T15 – d, S5 – e, S10 – f, S15 – g.

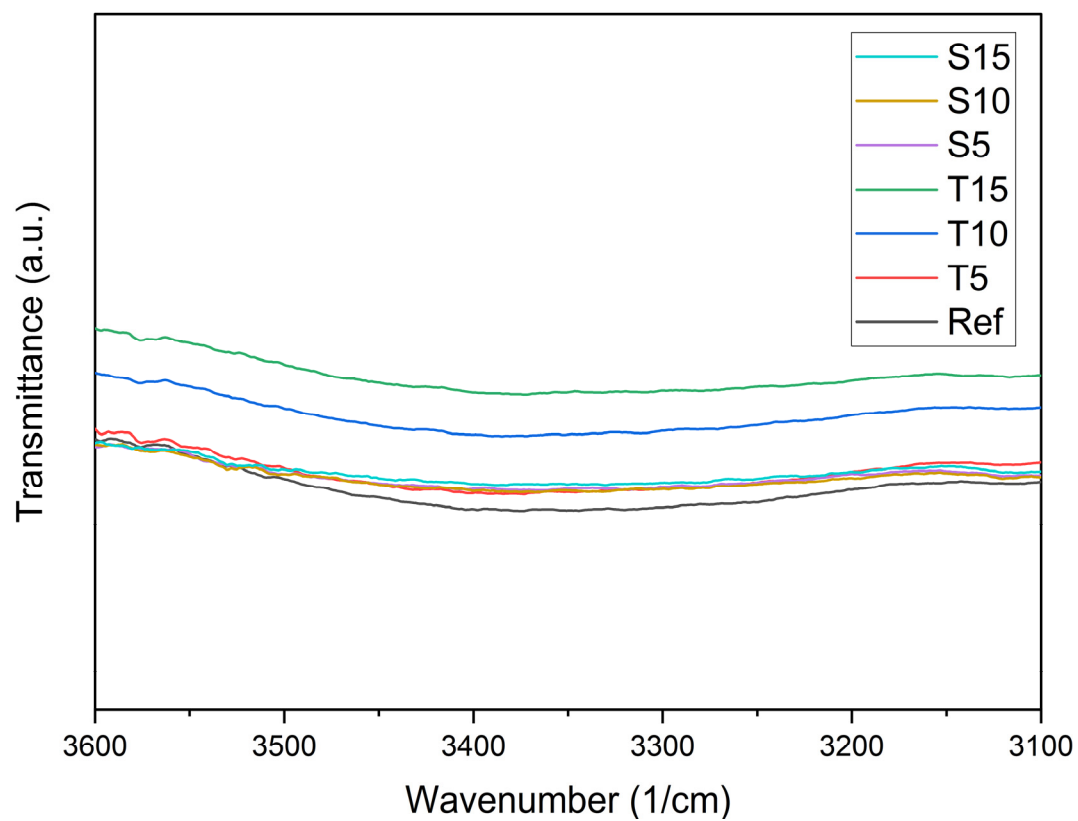


Figure S2. IR spectra of the obtained materials in the –OH stretching band.

Table S1. Thermal transitions determined by DSC.

Sample	I <sup>st</sup> heating run				II <sup>nd</sup> heating run			
	T <sub>p,m</sub> (°C)	T <sub>ei,m</sub> (°C)	T <sub>ef,m</sub> (°C)	ΔH (Jg <sup>-1</sup> )	T <sub>p,m</sub> (°C)	T <sub>ei,m</sub> (°C)	T <sub>ef,m</sub> (°C)	ΔH (Jg <sup>-1</sup> )
Ref	-38.0	-47.4	-31.5	-74.3	-37.6	-47.0	-30.7	-74.3
Ref_2	-38.1	-47.4	-30.3	-76.8	-38.1	-48.1	-30.3	-76.1
Ref_60	-34.7	-45.7	-26.3	-70.9	-35.1	-46.8	-26.6	-71.2
T5	-34.5	-45.4	-27.2	-78.8	-34.5	-45.2	-27.1	-78.4
T5_2	-34.4	-45.4	-26.6	-77.0	-34.4	-45.5	-26.5	-77.0
T5_60	-32.8	-44.3	-24.7	-75.6	-32.8	-43.8	-24.2	-75.4
T10	-33.8	-44.7	-25.9	-71.6	-33.1	-44.1	-25.6	-71.8
T10_2	-35.1	-45.2	-27.9	-73.5	-34.8	-44.6	-27.6	-74.9
T10_60	-34.7	-45.7	-27.3	-69.7	-35.4	-47.4	-27.8	-72.0
T15	-36.4	-45.7	-29.1	-65.5	-35.4	-45.3	-28.2	-65.5
T15_2	-34.0	-44.5	-25.7	-66.5	-34.4	-44.9	-25.9	-66.5
T15_60	-34.4	-45.2	-26.1	-73.5	-34.1	-45.2	-26.0	-72.8
S5	-34.8	-45.5	-26.9	-76.2	-34.5	-45.3	-26.7	-76.2
S5_2	-33.8	-45.0	-26.1	-73.6	-33.4	-45.3	-25.9	-73.9
S5_60	-34.8	-45.5	-26.9	-74.7	-34.1	-45.0	-26.3	-74.8
S10	-34.1	-44.4	-27.1	-74.4	-34.8	-45.0	-27.4	-74.6
S10_2	-34.1	-44.6	-25.9	-72.3	-34.1	-44.7	-26.1	-72.7
S10_60	-34.1	-45.9	-25.9	-69.7	-34.8	-46.5	-27.0	-72.5
S15	-37.1	-46.1	-30.6	-70.1	-36.8	-46.2	-30.4	-70.1
S15_2	-35.7	-46.3	-28.8	-67.4	-36.0	-46.4	-29.3	-67.4
S15_60	-33.1	-43.3	-24.5	-68.1	-33.1	-43.6	-25.0	-68.1