Supplementary Information for

Optimization of Thermal and Mechanical properties of Polypropylene-Wollastonite Composite Drawn Fibers Based on Surface Response Analysis

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Table S1. Diameters of two characteristic fiber samples

Repetition	Diameter, mm	
	DOE 3	DOE 11
1	0.232	0.147
2	0.230	0.144
3	0.236	0.144
4	0.239	0.148
5	0.223	0.154
6	0.225	0.157
7	0.235	0.160
8	0.232	0.155
9	0.234	0.173
10	0.242	0.174
Average value ± standard deviation	**0.23 ± 0.01**	**0.16 ± 0.01**

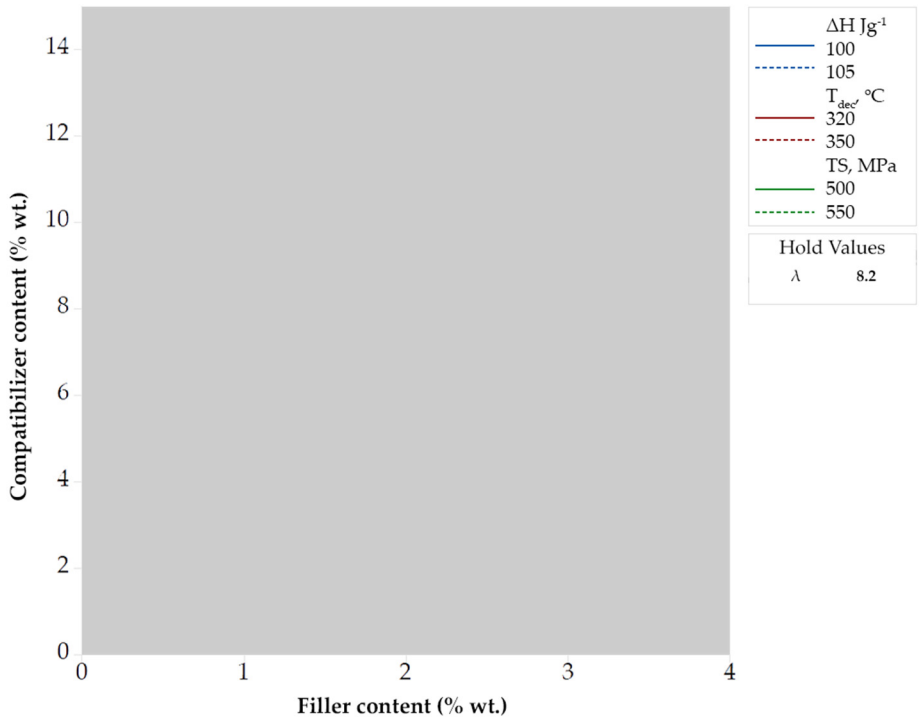

Figure S1. Optimization based on the combination (overlapping) of contour plots for specified ranges of ΔH, T_{dec} and TS assuming a hold (constant) value for the drawing ratio equal to 8.2.

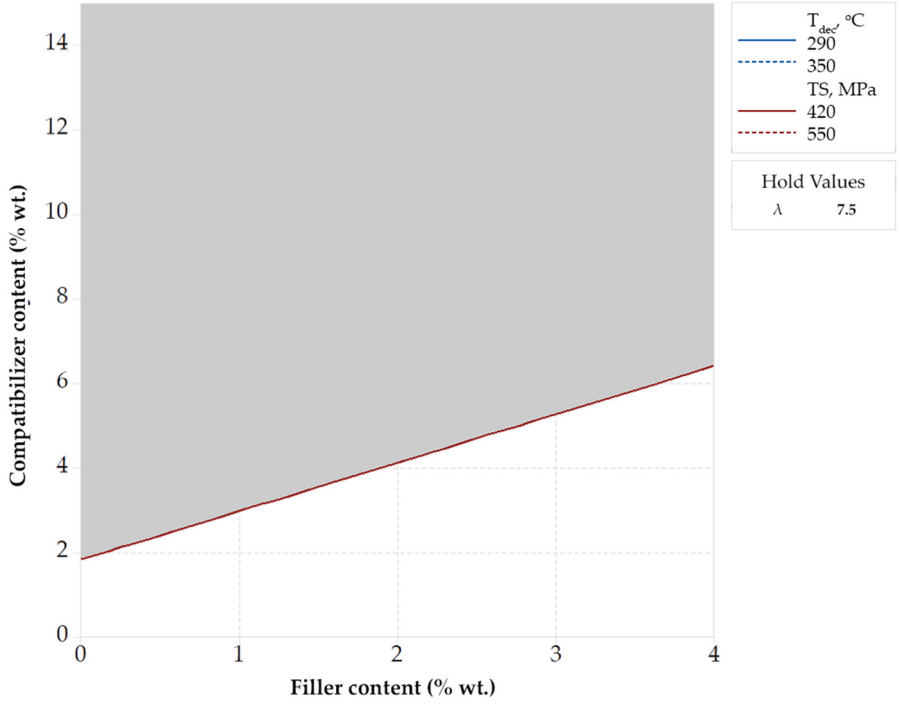

Figure S2. Optimization based on the combination (overlapping) of contour plots for specified ranges of ΔH, T_{dec} and TS assuming a hold (constant) value for the drawing ratio equal to 7.5.

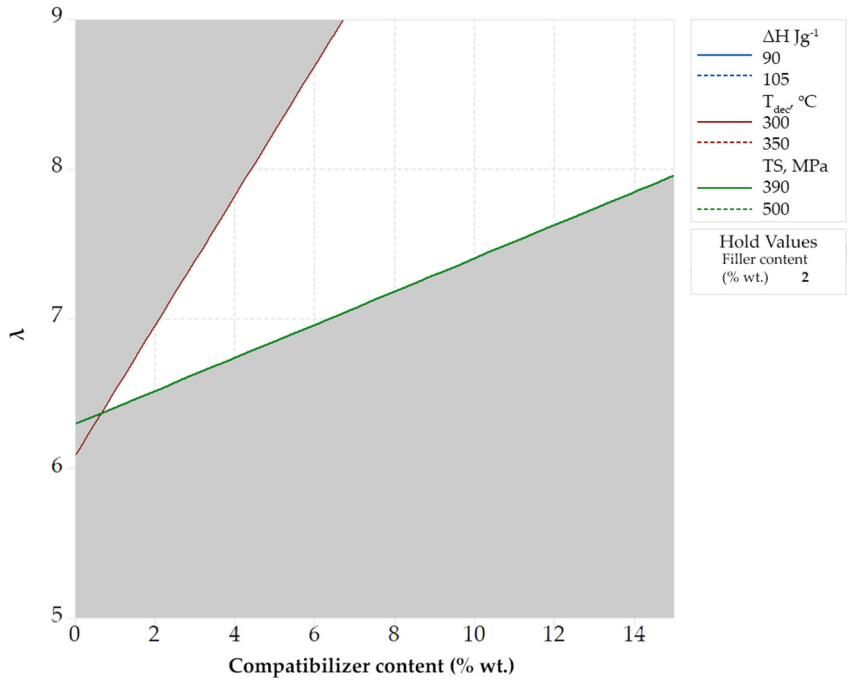

Figure S3. Optimization based on the combination (overlapping) of contour plots for specified ranges of ΔH, T_{dec} and TS assuming a hold (constant) value for the filler content equal to 2% wt.

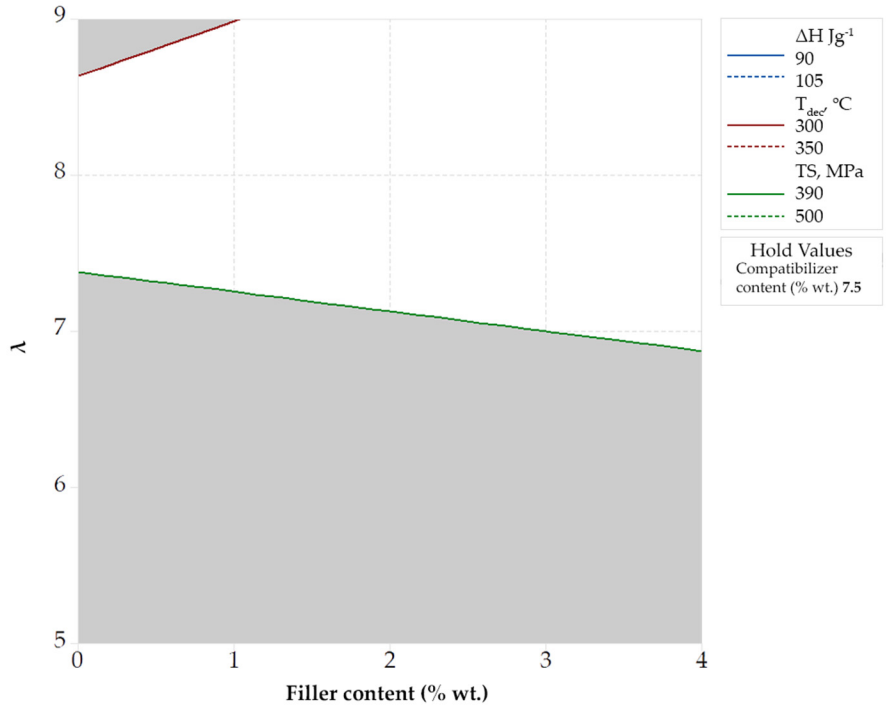

Figure S4. Optimization based on the combination (overlapping) of contour plots for specified ranges of ΔH, T_{dec} and TS assuming a hold (constant) value for the compatibilizer content equal to 7.5% wt.

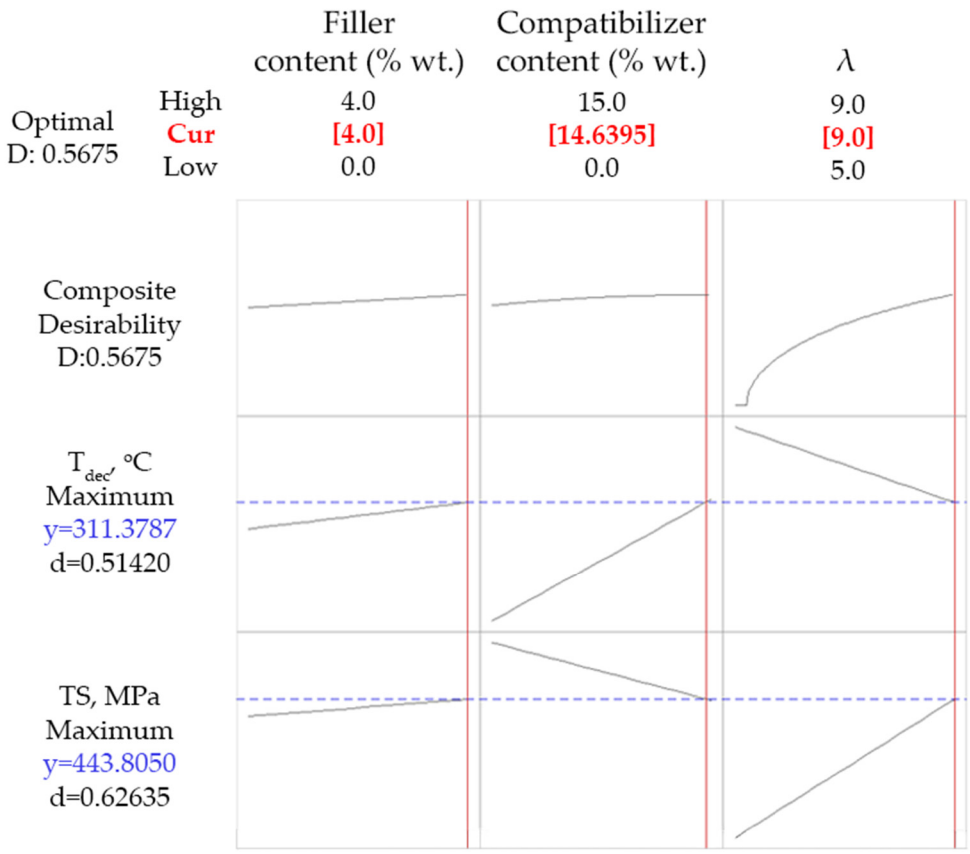

Figure S5. Optimization results targeting maximization of the onset decomposition temperature (Tdec) and the tensile strength (TS).

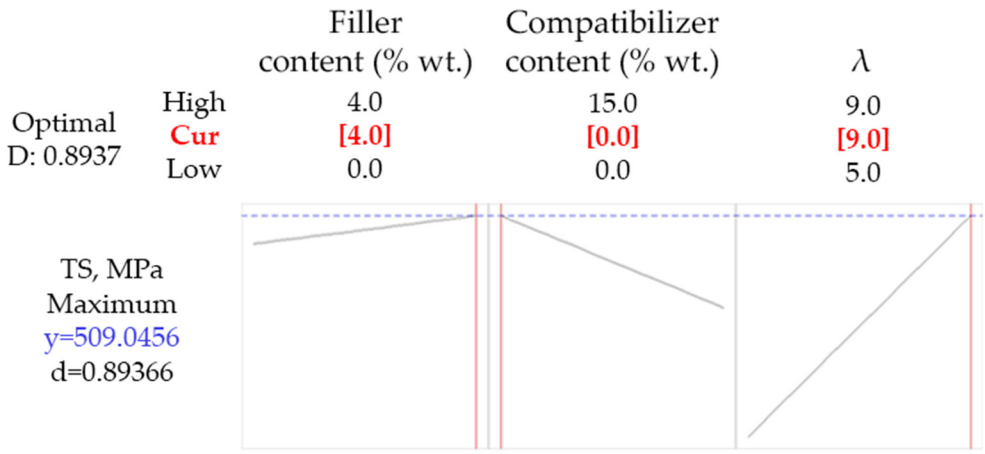

Figure S6. Optimization results targeting maximization of tensile strength (TS).