Table S1. Statistical data of linear correlations between mass loss (ML %) or moisture (ω %) and modulus of rupture (MOR) and modulus of elasticity (MOE), respectively.

SID	Decay fungi	CDL	Regression model	R^2	ML(%)	ω_2 (%)
B1	T.v.	***	MOR = −11.42 × ML + 75.65	0.88	2.1	17.26
		***	MOE = −1046 × ML + 5913	0.88		
	C.p.	nc	MOR = −34.72 × ML + 68.93	0.29	0.04	16.25
		nc	MOE = −3362 × ML + 5238	0.28		
	-	***	MOR = −2.11 × ω + 82.10	0.99	-	15.15
		***	MOE = −184.7 × ω + 6180	0.94		
B2	T.v.	***	MOR = −12.32 × ML + 70.63	0.96	2.31	17.58
		***	MOE = −1077 × ML + 5249	0.96		
	C.p.	nc	MOR = −21.69 × ML + 59.46	0.04	0.04	15.96
		nc	MOE = −2147 × ML + 4188	0.04		
	-	***	MOR = −1.88 ×Vω + 75.28	0.99	-	14.81
		***	MOE = −155.7 × ω + 5421	0.97		
SRC 1	T.v.	***	MOR = −8.06 × ML + 72.76	0.76	3.07	17.96
		***	MOE = −780 × ML + 5591	0.76		
	C.p.	***	MOR = −14.71 × ML + 74.13	0.83	1.83	18.10
		***	MOE = −1433 × ML + 5646	0.84		
	-	***	MOR = −1.89 × ω + 75.67	0.97	-	16.17
		**	MOE = −168.3 × ω + 5411	0.69		
SRC 2	T.v.	***	MOR = −19.30 × ML + 76.16	0.92	1.77	23.38
		***	MOE = −2230.9 × ML + 2831.1	0.92		
	C.p.	***	MOR = −10.53 × ML + 74.53	0.82	2.87	25.11
		***	MOE = −967 × ML + 5824	0.81		
	-	***	MOR = −1.51 × ω + 73.01	0.87	-	19.68
		**	MOE = −138.0 × ω + 5473	0.66		
S	T.v.	nc	MOR = −10.80 × ML + 66.62	0.12	0.37	16.35
		nc	MOE = −1050 × ML + 4989	0.12		
	C.p.	nc	MOR = −2.16 × ML + 64.35	0.00	0.03	16.31
		nc	MOE = −132 × ML + 4775	0.00		
	-	***	MOR = −2.30 × ω + 82.62	0.98	-	14.45
		***	MOE = −213.2 × ω + 6094	0.75		
C100 1	T.v.	**	MOR = −18.12 × ML + 68.57	0.52	0.97	16.89
		**	MOE = −1840 × ML + 5289	0.52		
	C.p.	***	MOR = −34.63 × ML + 72.02	0.71	0.68	16.57
		***	MOR = −3498 × ML + 5637	0.70		
	-	***	MOR = −2.23 × ω + 79.64	0.97	-	15.85
		***	MOE = −213.2 × ω + 6008	0.81		
C100 2	T.v.	***	MOR = −12.65 × ML + 43.06	0.90	1.21	23.38
		***	MOE = −3147 × ML + 5934	0.91		
	C.p.	***	MOR = −5.61 × ML + 42.41	0.86	2.51	25.11
		***	MOE = −1382 × ML + 5731	0.83		
	-	***	MOR = −0.57 × ω + 39.23	0.98	-	20.30
		***	MOE = −238.6 × ω + 6472.5	0.93		
C100 3	T.v.	***	MOR = −7.24 × ML + 38.12	0.92	2.44	28.79
		***	MOE = −1806 × ML + 6240	0.89		
	C.p.	***	MOR = −4.16 × ML + 37.57	0.85	3.74	30.03
		***	MOE = −1111 × ML + 6110	0.84		
	-	***	MOR = −0.89 × ω + 41.73	0.99	-	23.43
		***	MOE = −249.4 × ω + 7238	0.98		
P	T.v.	***	MOR = −3.52 × ML + 101.71	0.92	26.4	106.4
		***	MOE = −471 × ML + 13580	0.90		
	C.p.	***	MOR = −2.00 × ML + 102.06	0.90	34.7	178.2

		***	MOE = −177 × ML + 13655	0.71		
	-	**	MOR = −1.78 × ω + 117.44	0.56	-	34.9
		*	MOE = −130.8 × ω + 14707	0.34		
B	T.v.	***	MOR = −1.82 × ML + 124.22	0.95	67.6	140.8
		***	MOE = −201 × ML + 13671	0.94		
	C.p.	***	MOR = −4.59 × ML + 119.67	0.80	44.2	103.4
		***	MOE = −506 × ML + 13324	0.80		
	-	***	MOR = −1.96 × ω + 147.11	0.81	-0.1	51.6
		***	MOE = −209.4 × ω + 16100	0.79		
PP	T.v.	nc	MOR = −2.62 × ML + 22.71	0.01	0.00	0.00
		nc	MOE = −605 × ML + 2681	0.02		
	C.p.	nc	MOR = −5.50 × ML + 22.77	0.04	0.00	0.00
		nc	MOE = 77.71 × ML + 2678	0.00		
	-	nc	MOR = −1.825 × ω + 22.70	0.01	0.00	0.00
		nc	MOE = 70.9 × ω + 2677	0.00		

SID: Sample identification; CDL = Correlation degree and linearity; *** = Strong correlation (>0.7); ** = Moderate correlation (>0.5); * = weak correlation (>0.3); nc = no linear correlation (~0)

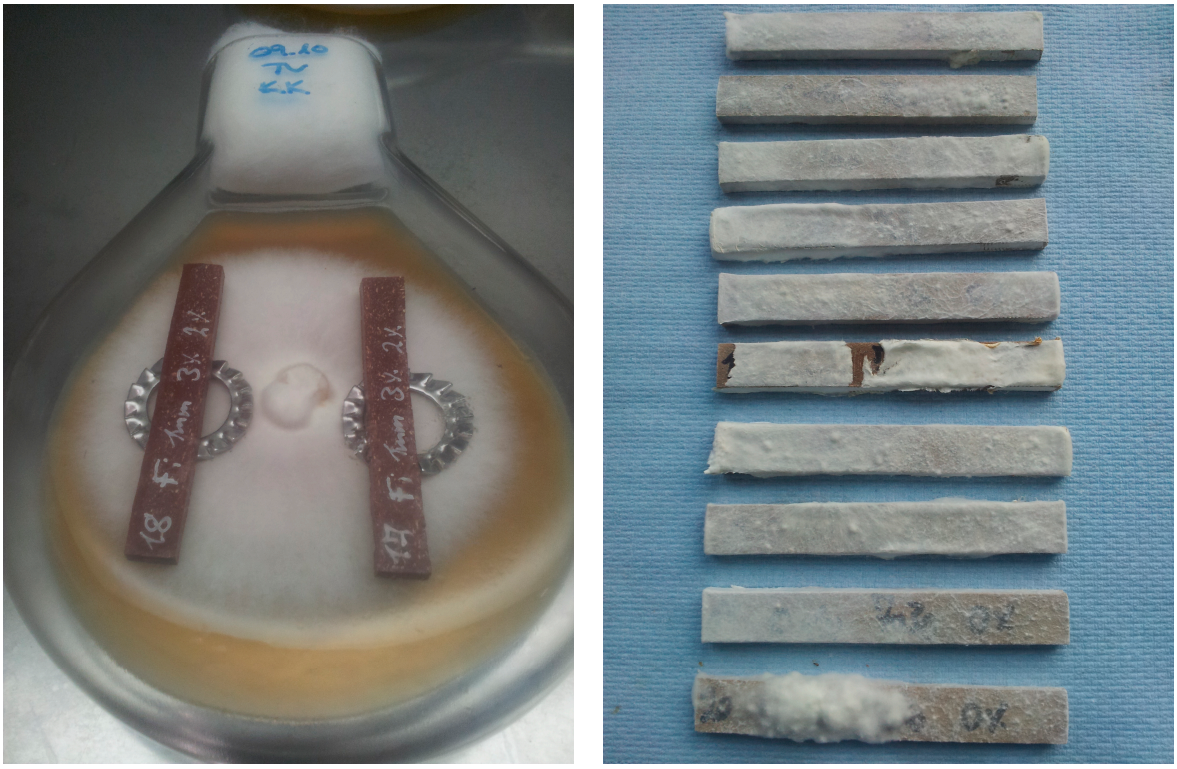

Figure S1: Left: Exemplarily image of sterilized WPC specimens (i.e. S) placed in a kolle flask at the beginning of the degradation procedure. The test fungus (i.e *Trametes versicolor*) is growing towards the WPC specimens. Right: Extracted WPC specimens (i.e. C100 2) covered by fungus mycelium (i.e. *Trametes versicolor)* after the degradation procedure (i.e. 16 weeks).