

Supplementary Material: Measured values of determination of surface energy and peel strength

storage time days	surface energy mN/m	standard deviation σ										
<i>d</i>	C16	C16	C18	C18	C16	C16	C18	C18	C16	C16	C18	C18
	28-99	28-99	28-99	28-99	4-98	4-98	4-98	4-98	noPVOH	noPVOH	noPVOH	noPVOH
	glassine	glassine										
1.00	17.66	0.17	17.62	0.18	17.94	0.18	17.86	0.22	22.40	0.38	18.75	0.33
6.00	18.00	0.14	18.13	0.10	17.38	0.12	17.92	0.07	21.44	0.18	19.95	0.19
14.00	20.81	0.24	18.93	0.20	20.43	0.18	19.25	0.16	20.65	0.12	17.13	0.17

Supplementary Table 1: Figure 4 glassine

storage time	surface energy	standard deviation										
days	mN/m											
d	20.4	σ	C16	C18	C16	σ	C16	C18	C16	σ	C18	C18
	28-99		28-99	28-99	28-99		4-98	4-98	4-98		noPVOH	noPVOH
	PET		PET	PET	PET		PET	PET	PET		PET	PET
3.00	19.70	0.26	18.10	0.15	20.40	0.13	17.40	0.04	24.20	0.60	25.60	0.40
9.00	18.80	0.17	18.40	0.09	19.20	0.14	18.20	0.09	25.70	0.14	27.20	0.15
17.00	21.00	0.31	18.10	0.16	19.50	0.31	18.70	0.23	25.30	0.24	25.70	0.03

Supplementary Table 2: Figure 4 PET

storage time days	peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation		peel strength standard deviation				
	d	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F	N/15mm	F		
	C16 4-98 pt glassine T3 detachs	C16 4-98 pt glassine	C16 28-99 pt glassine	C16 28-99 pt glassine	noPVOH pp glassine	C16 noPVOH pp glassine	T1,T2,T3,T8 tear	C16 4-98 pp glassine	C16 4-98 pp glassine	C16 28-99 pp glassine	C16 28-99 pp glassine	C16 4-98 pp glassine	C16 4-98 pp glassine	T1,2,3,8,21 detach	C16 28-99 pp glassine	C16 28-99 pp glassine	C16 4-98 pp glassine	C16 4-98 pp glassine	C16 28-99 pp glassine	C16 4-98 pp glassine	C16 4-98 pp glassine	C16 28-99 pp glassine	C16 4-98 pp glassine	C16 4-98 pp glassine	C16 28-99 pp glassine	C16 4-98 pp glassine	C16 4-98 pp glassine
1.00	0.23	0.10	0.25	0.11	0.80	0.07	0.00	0.01	0.01	0.01	0.13	0.02	0.03	0.00	0.06	0.00	0.62	0.41	0.76	0.09	1.01	0.05	0.07	0.39	0.04	0.29	0.07
2.00	0.17	0.05	0.22	0.09	0.74	0.21	0.01	0.01	0.01	0.01	0.15	0.01	0.03	0.00	0.06	0.00	0.38	0.60	0.32	1.17	0.30	0.04	0.03	0.49	0.07	0.29	0.07
3.00	0.09	0.06	0.20	0.11	0.75	0.19	0.00	0.00	0.01	0.01	0.10	0.02	0.03	0.00	0.06	0.00	0.37	0.77	0.43	1.18	0.21	0.04	0.03	0.46	0.07	0.29	0.07
8.00	0.27	0.06	0.33	0.06	0.74	0.33	0.00	0.00	0.01	0.01	0.15	0.03	0.03	0.00	0.06	0.00	0.42	0.73	0.16	1.36	0.13	0.05	0.04	0.73	0.04	0.29	0.07
21.00	0.23	0.14	0.26	0.09	0.97	0.13	0.00	0.00	0.01	0.01	0.06	0.04	0.03	0.00	0.06	0.00	0.43	0.72	0.09	1.05	0.16	0.04	0.03	0.59	0.06	0.29	0.07

Supplementary Table 3: Figure 5 C16

Supplementary Table 4: Figure 5 C18