

Supplementary Table S1. Surface roughness (Ra, Rz) and surface waviness (Wa, Wz) in μm (data are mean and standard-deviation values) before and after artificial toothbrushing. A significant difference between before and after artificial toothbrushing is indicated by different lower-case letters ($p < 0.05$).

		FMLB	NXT	PLC	PMMA	DFC	PICN
Ra	Pre	0.17±0.02 ^a	0.16±0.03 ^a	0.01±0.00 ^a	0.02±0.01 ^a	0.01±0.00 ^a	0.03±0.01
	Post	0.17±0.05 ^a	0.18±0.02 ^b	0.07±0.03 ^b	0.08±0.05 ^b	0.16±0.02 ^b	0.04±0.01
Rz	Pre	0.92±0.11 ^a	0.83±0.13 ^a	0.07±0.02 ^a	0.19±0.06 ^a	0.05±0.02 ^a	0.22±0.08
	Post	0.88±0.24 ^a	0.89±0.07 ^b	0.43±0.13 ^b	0.43±0.23 ^b	0.84±0.11 ^b	0.29±0.04
Wa	Pre	2.64±5.11 ^a	2.85±2.95 ^a	0.43±0.13 ^a	0.43±0.23 ^a	0.84±0.11 ^a	0.29±0.04
	Post	4.67±4.28 ^a	4.04±3.05 ^a	2.13±0.80 ^b	8.67±4.03 ^b	1.95±0.63 ^b	0.44±0.13
Wz	Pre	0.29±0.23 ^a	0.38±0.10 ^a	0.06±0.01 ^a	0.08±0.02 ^a	0.03±0.00 ^a	0.14±0.04
	Post	0.62±0.18 ^b	0.49±0.08 ^b	0.22±0.06 ^b	1.30±0.58 ^b	0.32±0.04 ^b	0.44±0.13

Supplementary Table S2. Vickers hardness (data are mean and standard-deviation values) of six materials. A significant difference between materials is indicated by different upper-case letters, and a significant difference between before and after artificial toothbrushing is indicated by different lower-case letters ($p < 0.05$).

	FMLB	NXT	PLC	PMMA	DFC	PICN
Pre	9.1±0.4 ^{A,a}	15.5±0.4 ^{A,a}	16.5±0.9 ^{A,a}	16.9±1.1 ^{A,a}	94.1±6.3 ^{B,a}	251.6±26.2 ^{C,a}
Post	12.7±2.7 ^{A,b}	16.1±6.1 ^{A,b}	16.4±6.4 ^{A,a}	16.3±6.3 ^{A,a}	90.6±0.6 ^{B,a}	235.5±22.8 ^{C,a}

Supplementary Table S3. color difference results (data are mean and standard-deviation values) of six materials. A significant difference between materials is indicated by different lower-case letters ($p < 0.05$).

	FMLB	NXT	PLC	PMMA	DFC	PICN
ΔE	1.0±0.6 ^a	1.6±0.6 ^{ab}	1.2±0.2 ^a	1.4±0.7 ^{ab}	2.3±1.0 ^b	1.4±0.6 ^{ab}

Supplementary Table S4. Flexural strength results (data are mean and standard-deviation values) in MPa before and after toothbrushing. Significant differences ($p < 0.05$) between materials and between before and after hydrothermal aging are indicated by different upper-case letters and different lower-case letters, respectively.

	FMLB	NXT	PLC	PMMA	DFC	PICN
Pre	139.4±40.5 ^{B,C,a}	163.9±14.0 ^{C,b}	155.2±23.6 ^{C,a}	108.0±8.1 ^{A,b}	116.4±11.4 ^{AB,b}	104.2±19.0 ^{A,b}
Post	135.5±37.8 ^{B,a}	147.2±15.7 ^{B,a}	147.1±38.3 ^{B,a}	78.5±7.3 ^{A,a}	86.9±11.4 ^{A,a}	73.6±8.0 ^{A,a}