

Watersorption and dissolution of dental resin composites

The aim of this study was to compare the water absorption and the dissolution of six dental resin composites. For this purpose specimens of the different materials were immersed in distilled water during either 24 hours or 7 days.

	Water Sorption (%)		Dissolution (%)	
	24h	7d	24h	7d
ELS	0.21 ± 0.02	0.60 ± 0.01	0.03 ± 0.01	0.09 ± 0.03
Microhybrid	0.36 ± 0.05	0.64 ± 0.04	0.05 ± 0.03	0.08 ± 0.05
Microhybrid MF	0.33 ± 0.05	0.73 ± 0.03	0.1 ± 0.06	0.2 ± 0.05
Tetric Ceram	0.21 ± 0.03	0.56 ± 0.03	0.05 ± 0.02	0.13 ± 0.03
Tetric EvoCeram	0.31 ± 0.03	0.70 ± 0.10	0.1 ± 0.03	0.20 ± 0.10
Filtek Supreme	0.84 ± 0.05	1.29 ± 0.07	0.25 ± 0.02	0.16 ± 0.07

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