One Composite For All Situations: Excellent Universal Products

Test Results

Materials and methods: Twenty-one total products tested, each given an overall score based on the following criteria *(in descending order of assigned importance):* ease of clinical placement *(handling and marginal adaptation);* polish retention *(following extended abrasion by standard brush and paste);* cost; polish at placement *(ease of polish);* flexural strength; depth of light cure; radiopacity; and translucency for esthetics *(compared to enamel).* All products listed are available in both compule and syringe dispensing versions.

Product *Company*	Approx. Cost/mL	Shades Available	Translucency for Esthetics *(compared to enamel)*	Ease of Placement *(handling and marginal adaptation)*	Radiopacity *(% Aluminum equivalency; Dentin: 96; Enamel: 176)*	Depth of Cure*	Flexural Strength *(MPa)* *(higher is better)*	Polish at Placement *(GU)* † *(higher is better)*	Polish Retention *(GU)* ‡ *(higher is better)*	Overall Score	Overall Rating
Harmonize *Kerr*	$53	30	Excellent	Excellent	256	4.9mm	112	Excellent: 85	Excellent: 80	97%	Excellent
TPH Spectra ST *Dentsply Sirona*	$59	6 *(full VITA range)*	Excellent	Excellent §	327	5.5mm	102	Excellent–Good: 60	Excellent: 88	96%	Excellent
Filtek Supreme Ultra *3M*	$65	36	Excellent	Excellent	261	5.0mm	125	Excellent: 87	Excellent: 88	95%	Excellent
Estelite Sigma Quick *Tokuyama Dental*	$45	20	Excellent	Excellent	189	3.7mm	75	Excellent: 87	Excellent: 71	94%	Excellent
Beautifil II LS *Shofu*	$34	14	Excellent–Good	Excellent–Good	230	6.0mm	105	Excellent: 78	Excellent: 63	93%	Excellent
Clearfil Majesty ES-2 *Kuraray*	$43	18	Excellent	Excellent	151	4.7mm	85	Excellent: 73	Excellent–Good: 59	91%	Excellent
Venus Pearl *Heraeus*	$65	27	Excellent	Excellent	276	4.4mm	155	Excellent–Good: 52	Excellent: 74	89%	Excellent
Mosaic *Ultradent*	$53	20	Excellent	Good	263	5.3mm	150	Excellent: 74	Excellent: 70	87%	Excellent
G-aenial Sculpt *GC America*	$57	17	Excellent–Good	Good	238	5.3mm	97	Excellent: 76	Excellent: 67	86%	Excellent–Good
Simile *Pentron*	$35	20	Excellent	Good	214	5.5mm	117	Excellent–Good: 55	Good: 41	84%	Excellent–Good
Evanesce *Clinician's Choice*	$58	31	Excellent	Good	223	5.0mm	98	Excellent: 80	Excellent–Good: 58	84%	Excellent–Good
Nuance *DenMat*	$41	9	Excellent	Good–Fair	141	4.5mm	89	Excellent: 74	Excellent: 67	83%	Excellent–Good
Aura *SDI*	$60	12	Excellent–Good	Good	229	5.5mm	91	Excellent: 72	Excellent–Good: 61	82%	Excellent–Good
Exquisite Restoration *Apex Dental*	$36	8	Excellent	Fair	218	4.0mm	109	Excellent: 80	Good: 49	82%	Excellent–Good
Renamel Nano Plus *Cosmedent*	$50	17	Excellent	Fair	276	5.4mm	102	Excellent: 67	Excellent: 63	81%	Excellent–Good
N'Durance *Septodont*	$51	18	Excellent	Fair	382	5.3mm	105	Excellent: 77	Excellent–Good: 61	81%	Excellent–Good
Brilliant EverGlow *Coltene*	$54	12	Excellent	Fair	198	5.8mm	102	Excellent: 83	Excellent: 69	78%	Excellent–Good
Esthet-X HD *Dentsply Sirona*	$58	31	Excellent	Good	273	3.2mm	101	Excellent: 66	Good: 45	76%	Excellent–Good
Tetric EvoCeram *Ivoclar Vivadent*	$53	22	Excellent	Fair	341	3.7mm	95	Excellent: 70	Good: 47	74%	Excellent–Good
Herculite Ultra *Kerr*	$67	29	Excellent	Good–Fair	261	2.5mm	116	Excellent: 74	Excellent: 63	71%	Good
GrandioSO *Voco*	$65	17	Excellent	Fair	255	3.3mm	109	Excellent–Good: 50	Good–Fair: 35	62%	Good

* *Using Valo Grand curing light by Ultradent (in standard mode) for manufacturer-recommended times, under idealized test conditions in extracted tooth*
† *Gloss reading using standard glossmeter, following initial polishing with series of progressively finer polishing grit levels, followed by polishing paste*
‡ *Gloss reading using standard glossmeter, following initial polishing and 40,000 cycles of abrasion by standard toothbrush and toothpaste*
§ *HV (high-viscosity) and LV (low-viscosity) versions available, depending on clinician preference.*