

5 reasons to choose

Competitive Comparison

Filtek™ Easy Match Universal Restorative

Ultradent Transcend™ UB

VS



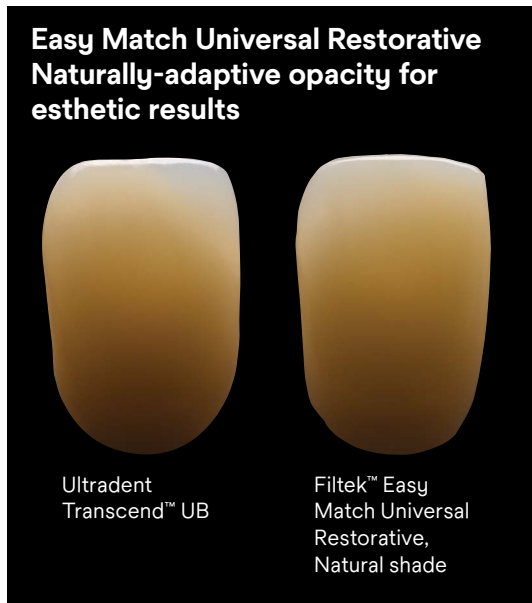
Filtek™ Easy Match Universal Restorative

over

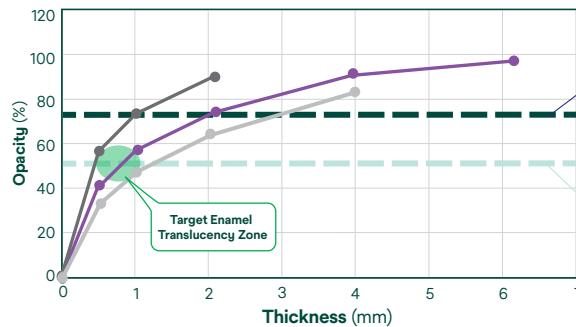
Ultradent Transcend™ UB

1 Naturally adaptive opacity, no blocker needed

Filtek Easy Match Universal Restorative shows Dentin-like opacity at thicknesses >2 mm and Enamel-like translucency at thicknesses of 0.5–1 mm, just where you need it – on the bevel and on the incisal edge. Ultradent Transcend™ UB shows Dentin-like opacity only at thicknesses of around 3 mm and may require an opaquer in anterior restorations.



Inside the science of naturally-adaptive opacity

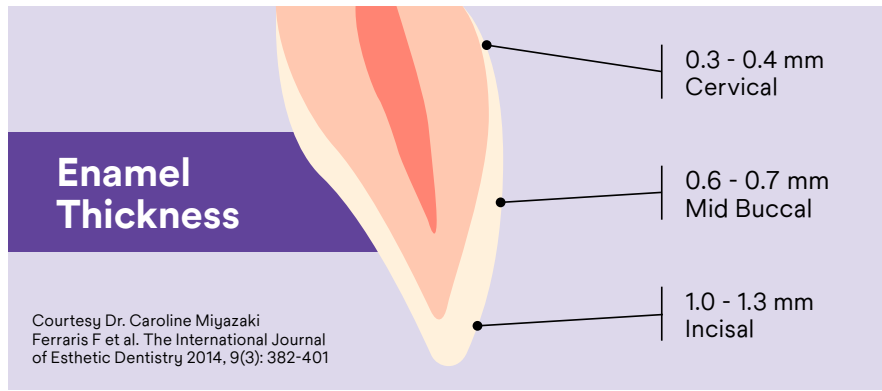


Dentin Value
Filtek™ Easy Match shows Dentin-like opacity at thicknesses ≥ 2 mm

Enamel Value
Filtek™ Easy Match shows Enamel-like translucency at thicknesses of 0.5 - 1 mm

Source: Internal data.
Ultradent Transcend™ UB Lot #BZ8NZ;
Filtek™ Easy Match Universal Restorative Lot #NC53985.

Where is Enamel-like translucency required? On the incisal edge, where enamel thickness ranges from 1.0–1.3 mm, and on the enamel bevel, which has a thickness of 0.5–0.75 mm.*



Courtesy Dr. Caroline Miyazaki
Ferraris F et al. The International Journal of Esthetic Dentistry 2014, 9(3): 382-401

*Ferraris F et al. The International Journal of Esthetic Dentistry 2014, 9(3): 382-401

2 Polish Retention*

Our TRUE nanoparticles (<100 nm) are responsible for Filtek™ Easy Match Universal Restorative maintaining its high esthetics and gloss. The photos show a comparison of the polish retention of both materials after 6,000 simulated brushing cycles. A sharper reflection image is an indicator of better polish retention. Filtek Easy Match Universal Restorative shows superior polish retention compared to Ultradent Transcend™ UB.

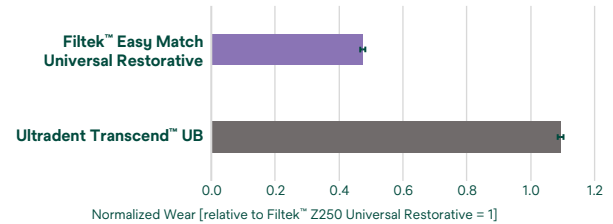


Side-by-side photos compare the polish retention after 6,000 cycles of simulated toothbrushing.

3 Wear (ACTA 3-Body Wear)*

The measurement of wear is a critical indicator of longevity in restorations. In the ACTA 3-body wear test, composite (1st body) is loaded onto a wheel, which contacts another wheel, which acts as an “antagonistic cusp” (2nd body). The two wheels counter-rotate against one another, dragging abrasive slurry (3rd body) between them. Dimensional loss is determined by profilometry at the end of 200,000 cycles. Results show that Filtek Easy Match Universal Restorative provides better wear resistance compared to Ultradent Transcend™ UB.

ACTA 3-Body Wear



4 Flexural Strength & Fracture Toughness*

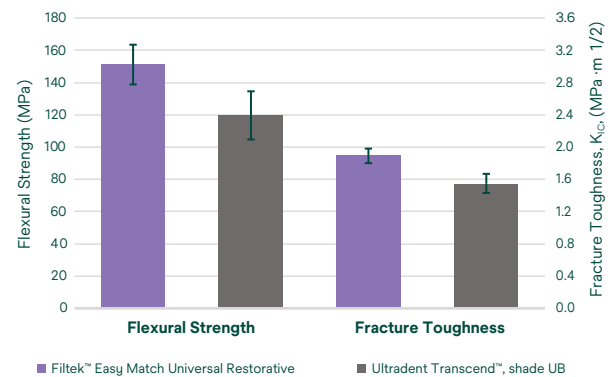
Flexural Strength Test

Flexural strength (MPa) is determined by curing a short bar of material. The bar is placed on a 3-point bend fixture that supports either end, and an anvil is positioned above the center. The anvil presses down until the bar breaks. This test combines the forces found in compression and tension.

Fracture Toughness Test

The values reported for fracture toughness (K_{IC}) are related to the energy required to propagate a crack. The test is very similar to the flexural strength test, excepting that a notch is cut in the center of the bar. The anvil is positioned above the notch and it presses down until the bar breaks. Test results show that Filtek Easy Match Universal Restorative provides statistically better flexural strength and fracture toughness compared to Ultradent Transcend™ UB.

Flexural Strength vs. Fracture Toughness



5 Physical Properties*

Filtek™ Easy Match Universal Restorative has better performance in certain categories due to its TRUE nanofiller technology, and it performs statistically better than Ultradent Transcend™ UB.

Physical property (Unit of measure)	Filtek™ Easy Match Universal Restorative (Natural)	Ultradent Transcend™ (UB)
Diametral Tensile Strength (MPa)	87	68
Flexural Strength (MPa)	151	120
Fracture Toughness (MPa·m ^{1/2})	1.89	1.55
Shrinkage (Watts %)	1.73	2.52
Polish Retention (6K, gloss %)	75	23
Wear (ACTA 3-Body Wear, relative to Filtek™ Z250 Universal Restorative = 1)	0.47	1.09

