BJM Q-Match *Smart Shade Matching Universal Restorative Composite*

ADVANTAGES

Smart blending properties	Simplified 3 shades selection	Superb handling	Universal	Excellent strength and durability

FORMULA MAIN BLOCKS

Resin	Fillers	Photo-initiators	Additives
Bis-GMA	Dental Glass	CQ	Pigments
TEGDMA	Fumed Silica	TPO	
		EDB	

TESTS RESULTS*

	BJM LAB	3M Filtek Suprem Ultra	Tokuyama Omnichroma	Dentsply Sirona TPH Spectra ST	Kerr SimpliShade
Depth of Cure (mm)	9	9	9	9	9
Flexural strength (MPa)	106 ± 10	78 ± 10	73 ± 6	105 ± 10	79 ± 10
Compressive Strength (MPa)	289 ± 17	278 ± 28	315 ± 27	270 ± 27	260 ± 23
SBS** to Enamel (MPa)	27 ± 3	32 ± 3	24 ± 3	25 ± 2	22 ± 4
Water sorption ($\mu g/mm^3$)	12 ± 1	20 ± 3	17 ± 2	15 ± 2	19 ± 2
Water solubility ($\mu g/mm^3$)	1 ± 0.1	3 ± 2	1 ± 0.2	3 ± 1	2 ± 0.3
Radiopacity (mm Al)	2.74	2.14	1.27	2.43	2.50
Polymerization Shrinkage (%)	1.3	1.1	1.3	2.1	3.8
Degree of Conversion (%)	60	41	46	41	41

*All results and findings presented in this document are based on internal testing conducted by BJM LAB. These results may vary under different test conditions and should be interpreted accordingly.

** Using 3M Scotchbond universal adhesive