

DEPTH MATRIX GUIDE

A quick reference on popular composites and how they react to laser light regarding curing time and temperature.

UNDERSTANDING THE CHARTS

Step 1: Identify the graph of the composite material brand you are using.

Step 2: Identify the shade you are using and use the key at the bottom of the graph to determine which line identifies the shade you are using.

Step 3: Pick a cure time (located at the bottom of the graph, along the X-axis)

Step 4: Follow your cure time up to the shade line

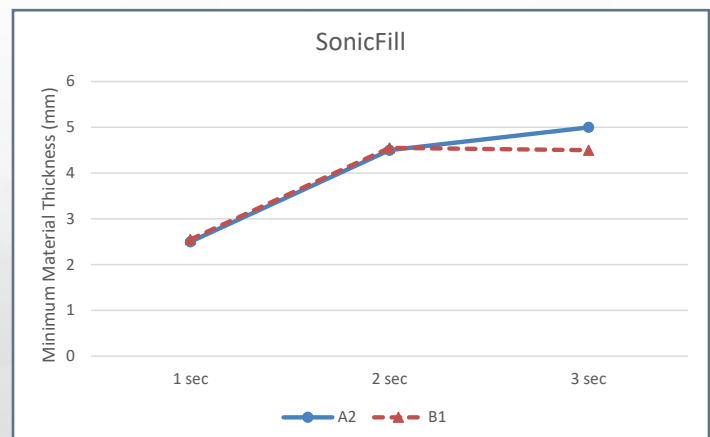
Step 5: Your cure depth will be on the left side of the graph (along the Y-axis)

Step 6: If the minimum thickness of the composite you will be curing is less than the number you have arrived at, use the attenuator.

NOTE: The minimum thickness is to protect against excessive temperature. For the combination of material, shade, and exposure time, if the thickness is less than the point on the line, there is risk the pulp chamber could exceed the safe temperature limit.

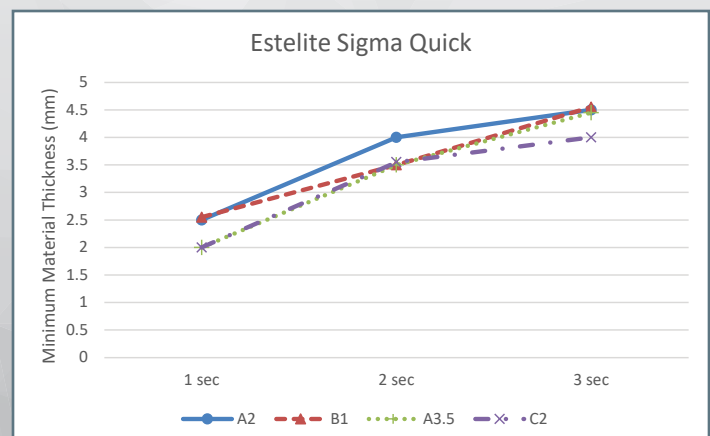
SonicFill™	1 sec	2 sec	3 sec
A2	2.5	4.5	5
B1	2.5	4.5	4.5

SonicFill is a registered trademark of Kerr Corporation.*



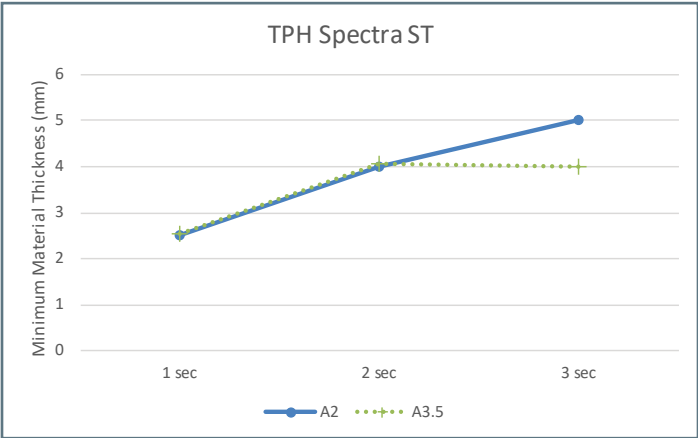
Estelite® Sigma Quick	1 sec	2 sec	3 sec
A2	2.5	4	4.5
B1	2.5	3.5	4.5
A3.5	2	3.5	4.5
C2	2	3.5	4

Estelite Sigma Quick is a registered trademark of Tokuyama Dental Corporation.*



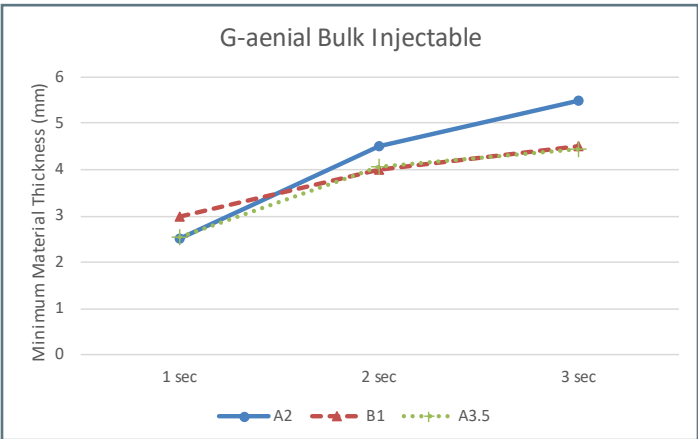
TPH Spectra® ST	1 sec	2 sec	3 sec
A2	2.5	4	5
A3.5	2.5	4	4

TPH Spectra ST is a registered trademark of Dentsply Sirona.*



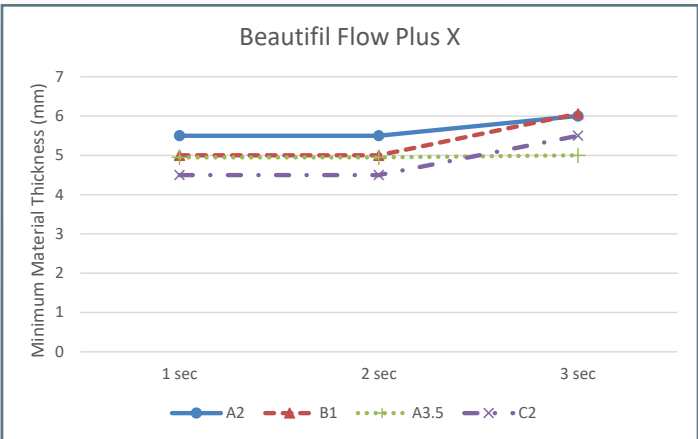
G-aenial™ Bulk Injectable	1 sec	2 sec	3 sec
A2	2.5	4.5	5.5
B1	3	4	4.5
A3.5	2.5	4	4.5

G-aenial Bulk Injectable is a registered trademark of GC America.*



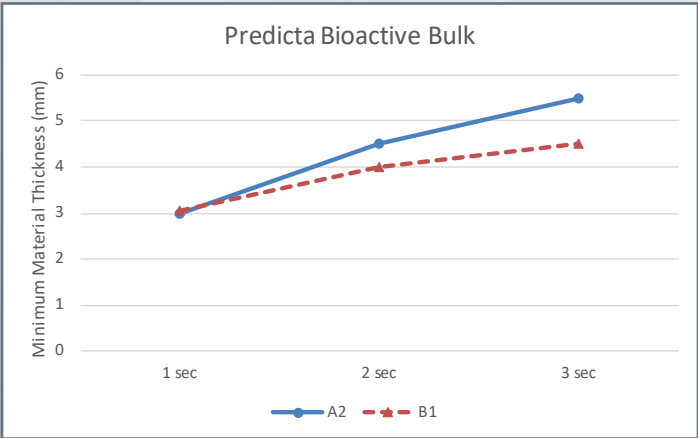
Beautiful™ Flow Plus X	1 sec	2 sec	3 sec
A2	5.5	5.5	6
B1	5	5	6
A3.5	5	5	5
C2	4.5	4.5	5.5

Beautiful Flow Plus X is a registered trademark of SHOFU.*



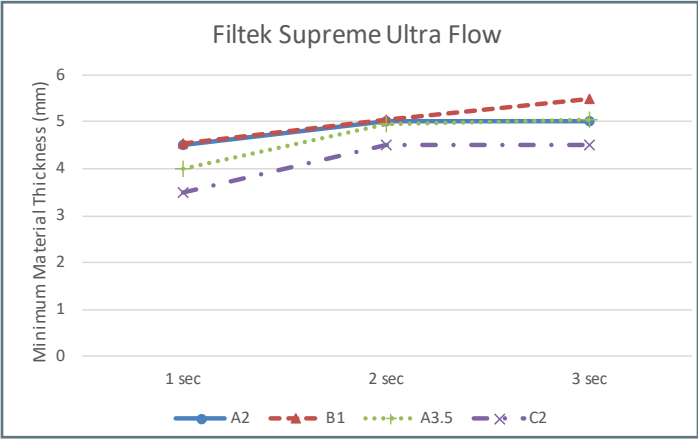
Predicta™ Bioactive Bulk	1 sec	2 sec	3 sec
A2	3	4.5	5.5
B1	3	4	4.5

Predicta Bioactive Bulk is a registered trademark of Parkell.*



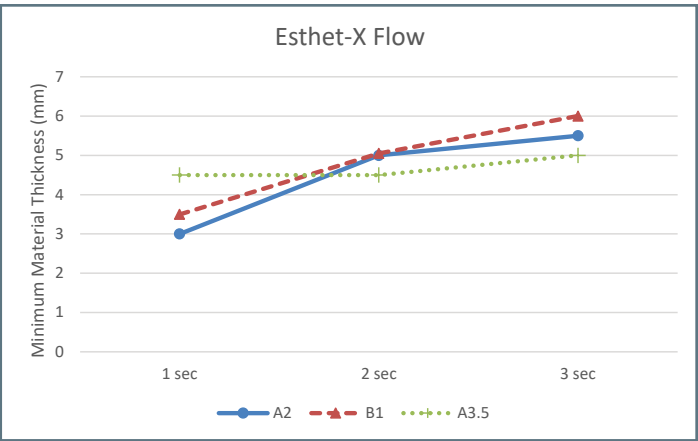
Filtek™ Supreme Ultra Flow	1 sec	2 sec	3 sec
A2	4.5	5	5
B1	4.5	5	5.5
A3.5	4	5	5
C2	3.5	4.5	4.5

Filtek Supreme Ultra Flow is a registered trademark of 3M ESPE.*



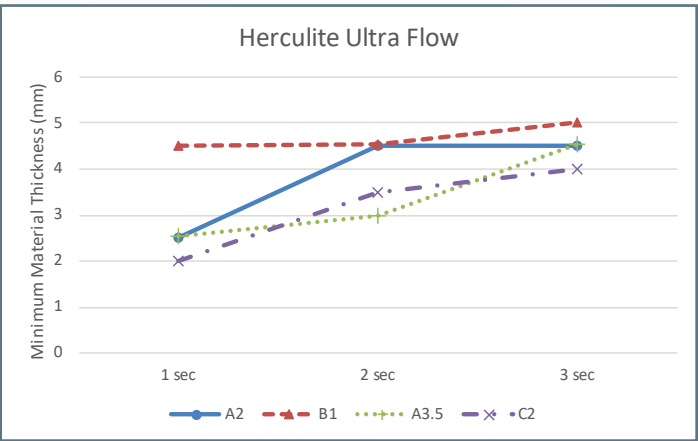
Esthet-X® Flow	1 sec	2 sec	3 sec
A2	3	5	5.5
B1	3.5	5	6
A3.5	4.5	4.5	5

Esthet-X Flow is a registered trademark of Dentsply Sirona.*



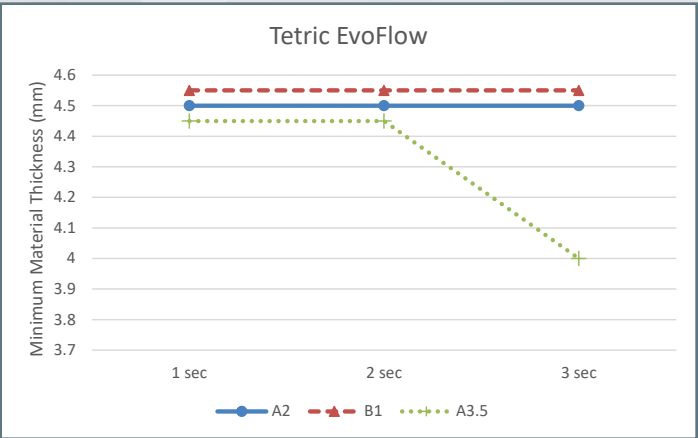
Herculite™ Ultra Flow	1 sec	2 sec	3 sec
A2	2.5	4.5	4.5
B1	4.5	4.5	5
A3.5	2.5	3	4.5
C2	2	3.5	4

Herculite Ultra Flow is a registered trademark of Kerr Corporation.*



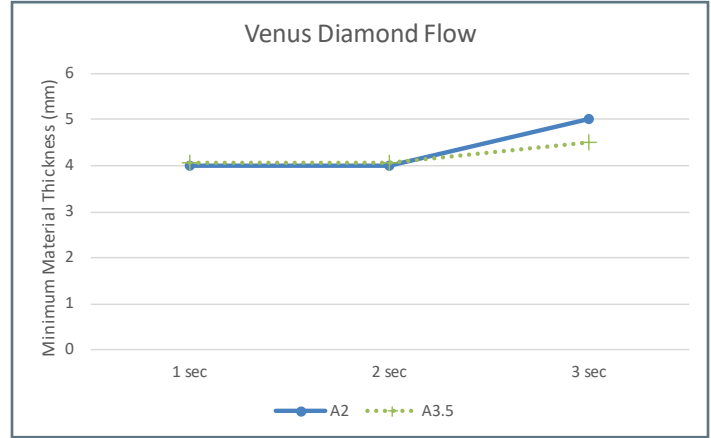
Tetric EvoFlow®	1 sec	2 sec	3 sec
A2	4.5	4.5	4.5
B1	4.5	4.5	4.5
A3.5	4.5	4.5	4

Tetric EvoFlow is a registered trademark of Ivoclar Vivadent.*



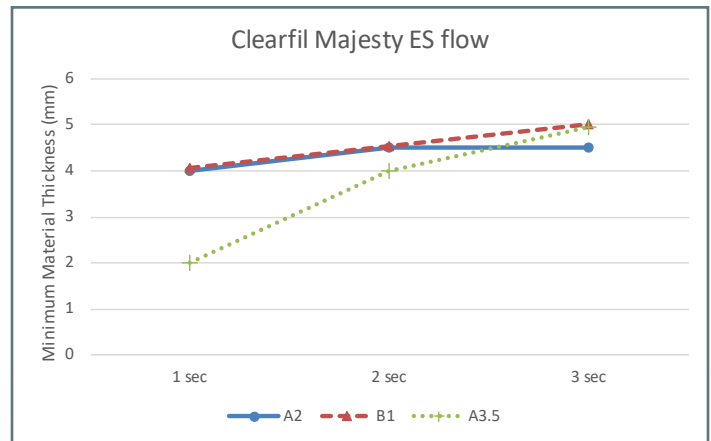
Venus® Diamond Flow	1 sec	2 sec	3 sec
A2	4	4	5
A3.5	4	4.5	5

Venus Diamond Flow is a registered trademark of Kulzer GmbH.*



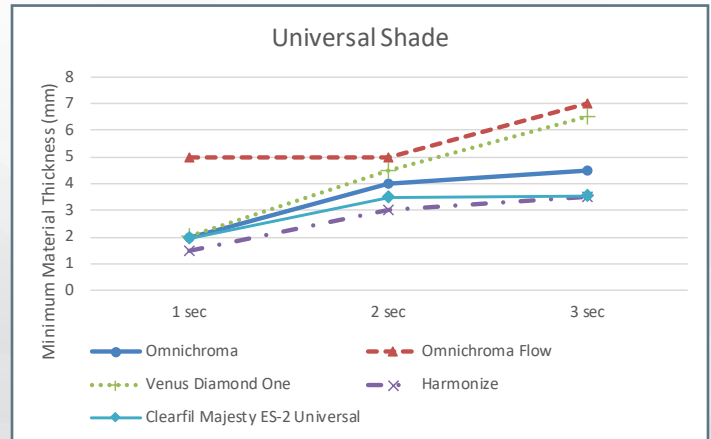
Clearfil™ Majesty ES flow	1 sec	2 sec	3 sec
A2	4	4.5	4.5
B1	4	4.5	5
A3.5	2	4	5

Clearfil Majesty ES flow is a registered trademark of Kuraray America.*



Universal Shade	1 sec	2 sec	3 sec
Omnichroma™	2	4	4.5
Omnichroma™ Flow	5	5	7
Venus® Diamond One	2	4.5	6.5
Harmonize™	1.5	3	3.5
Clearfil™ Majesty ES-2 Universal	2	3.5	3.5

Omnichroma and Omnichroma Flow are registered trademarks of Tokuyama Dental Corporation. Venus Diamond Flow is a registered trademark of Kulzer GmbH. Harmonize is a registered trademark of Kerr Corporation. Clearfil Majesty ES flow is a registered trademark of Kuraray America.*



If you find that you are using a composite material that is not indicated by the graphs in this booklet. Please call support at 866.999.2635 or visit us online at www.amdlasers.com. Graphs and composite brands will be updated in near future on our website.

Data gathered from independent testing of 17 of the most popular brands, and shades of those brands, and also includes universal shade brands. Study measured depth of cure based on time, and measured heat generated during the curing process to accurately indicate cure time based on each brand formula and to recommend ideal situations to include the attenuator in your process.

*This composite is not affiliated with CAO Products and is being used for comparison only.