

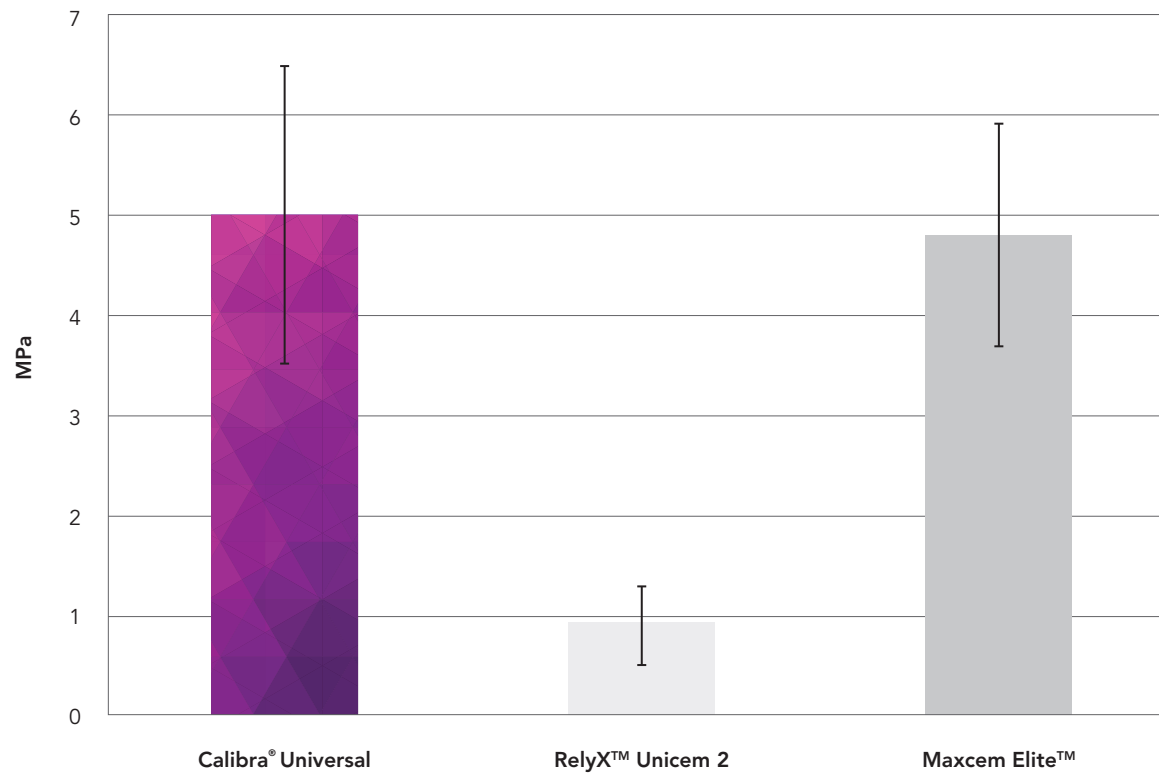
Composition of Calibra® Universal

<p>Inorganic filler particles range from 16 nm to 7 µm. Median particle size 1.8 µm. Total filler 48.7% (v/v).</p>	
Base Paste	Catalyst Paste
Urethane Dimethacrylate	Urethane Dimethacrylate
Di and Tri-methacrylates	Di and Tri-methacrylates
Initiators	Phosphoric acid modified acrylate
Stabilizers	Initiators
Silanated barium glass	Stabilizers
Fumed silica	Silanated barium glass
Pigments	Fumed silica

Physical and Mechanical Properties

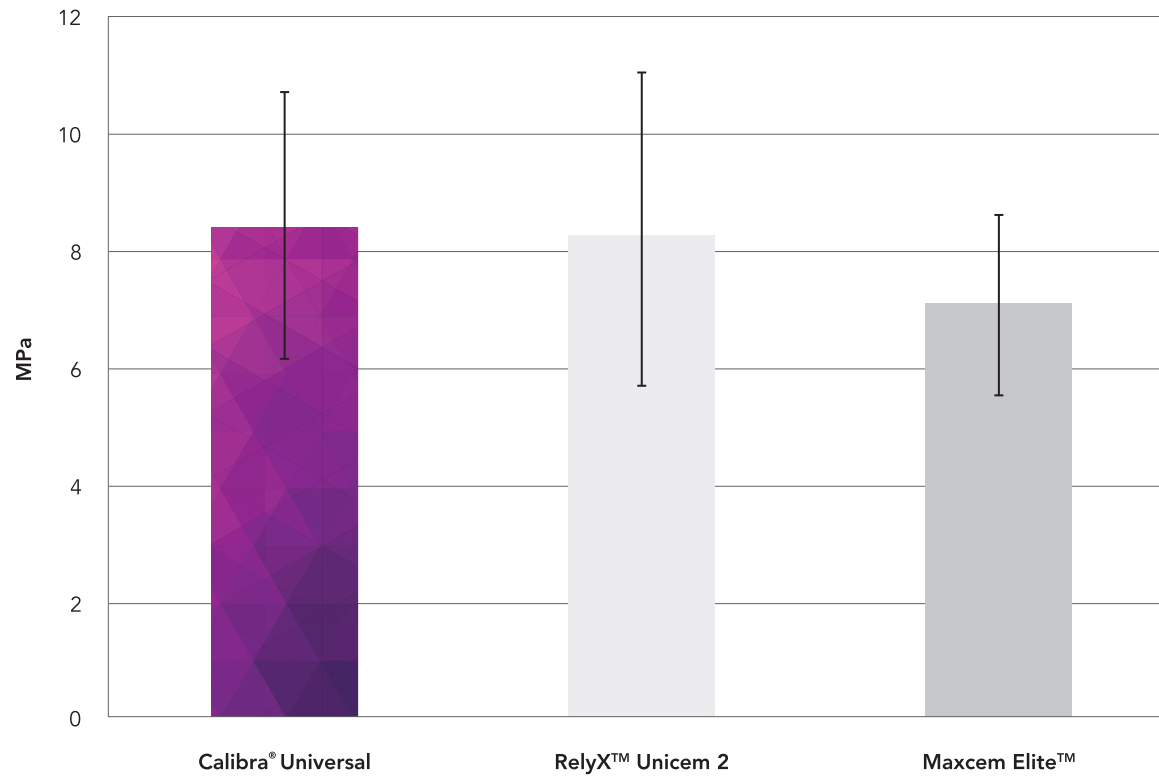
Properties	Calibra® Universal (Dual Curing)	ISO Standard
Compressive strength (MPa)	336	N/A
Flexural strength (MPa)	120	≥ 50
Flexural modulus (GPa)	8.6	N/A
Film thickness (μm)	19.6	≤ 50
Radiopacity (% Aluminum)	183%	≥ 100%
Water sorption (μg/mm ³)	36	≤ 40
Water solubility (μg/mm ³)	2.2	≤ 7.5
Expansion after 6 month (%)	0.48	N/A

6 Minute Shear Bond Strength to Dentin



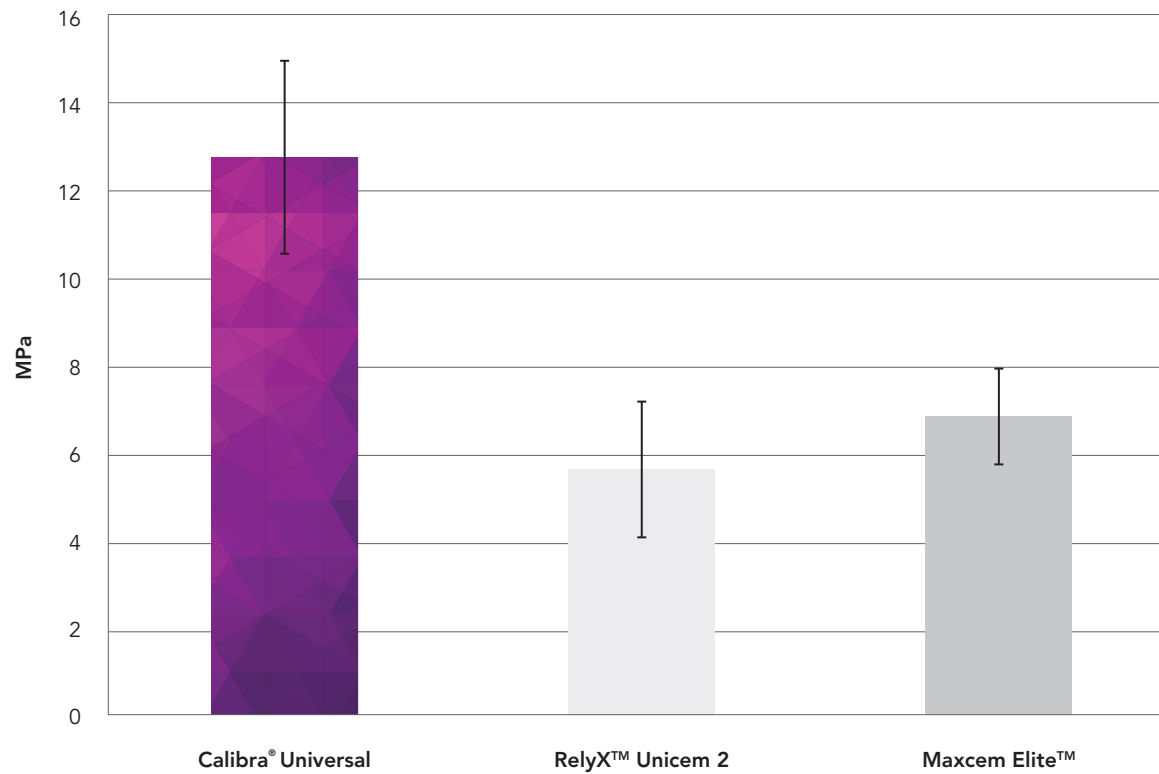
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1 Hour Shear Bond Strength to Dentin



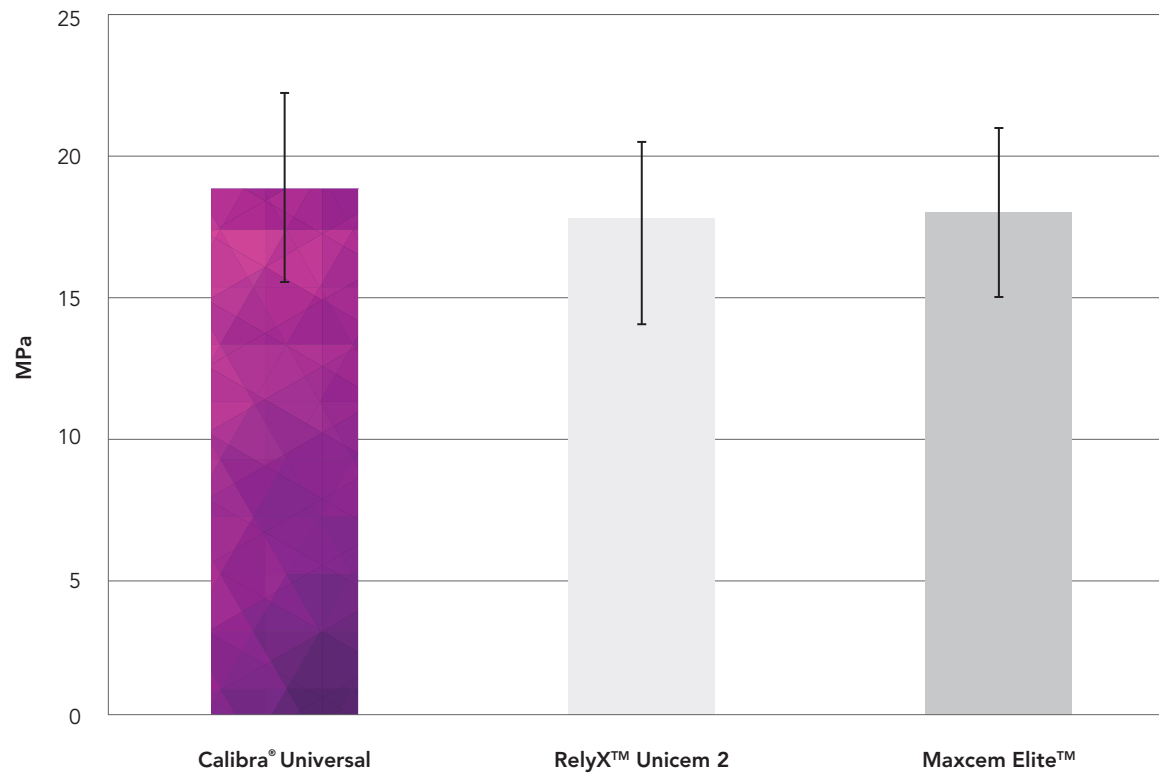
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24 Hour Shear Bond Strength to Dentin



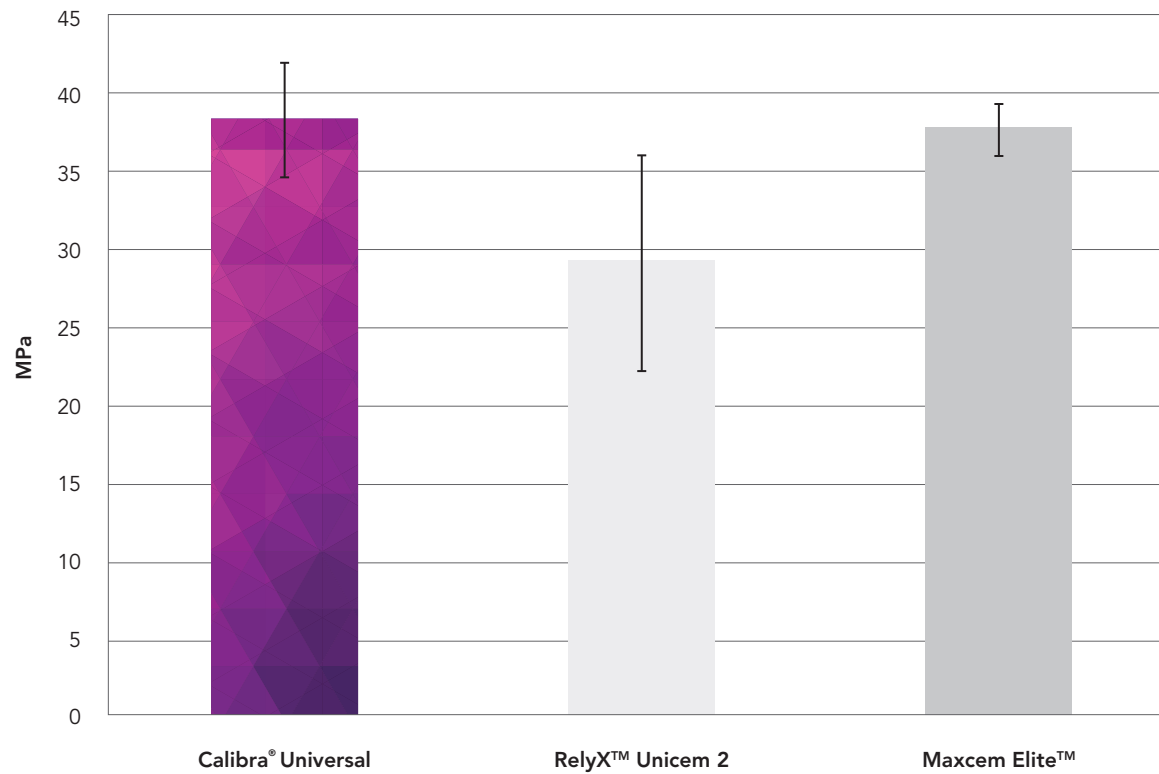
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24 Hour Shear Bond Strength to Enamel



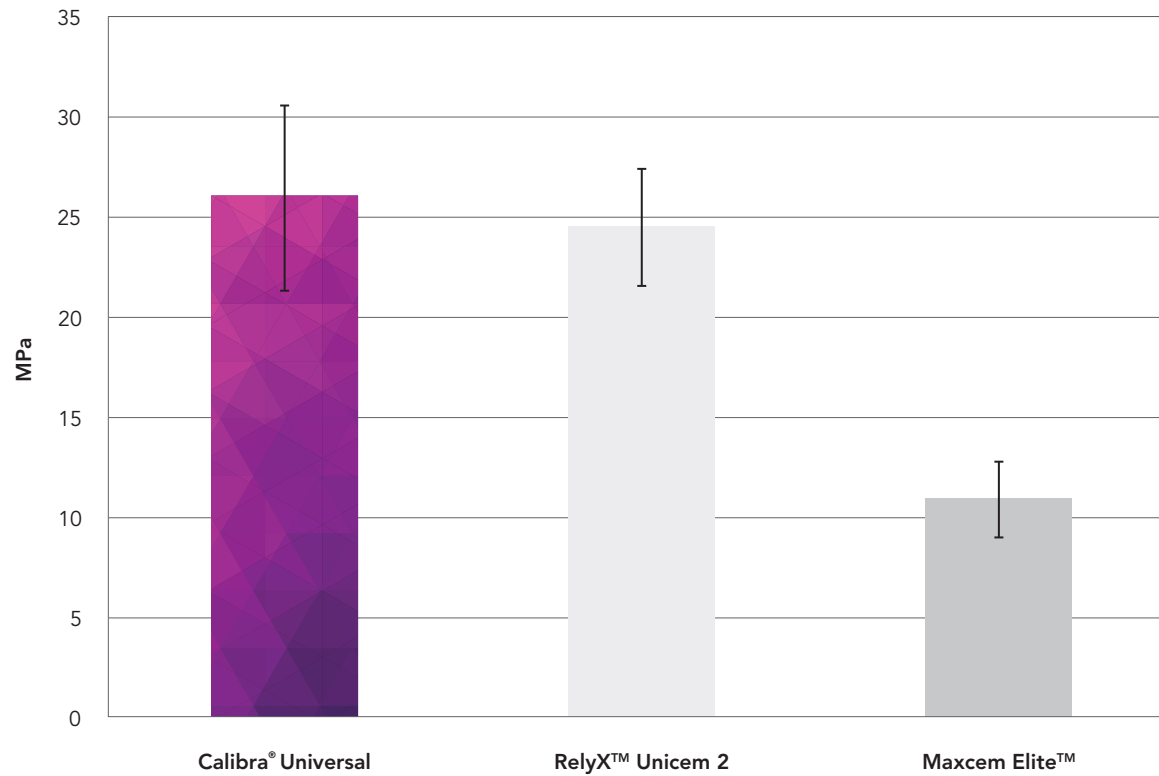
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24 Hour Shear Bond Strength to Glass Ceramics



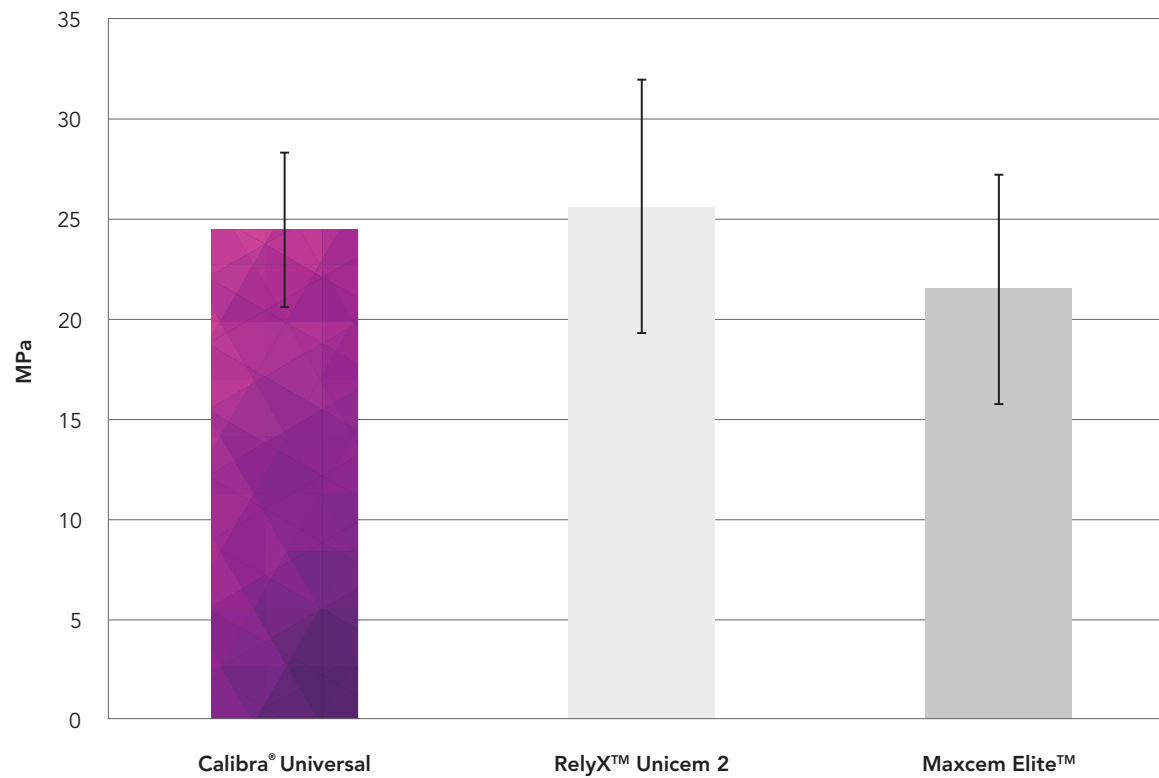
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24 Hour Shear Bond Strength to Composite



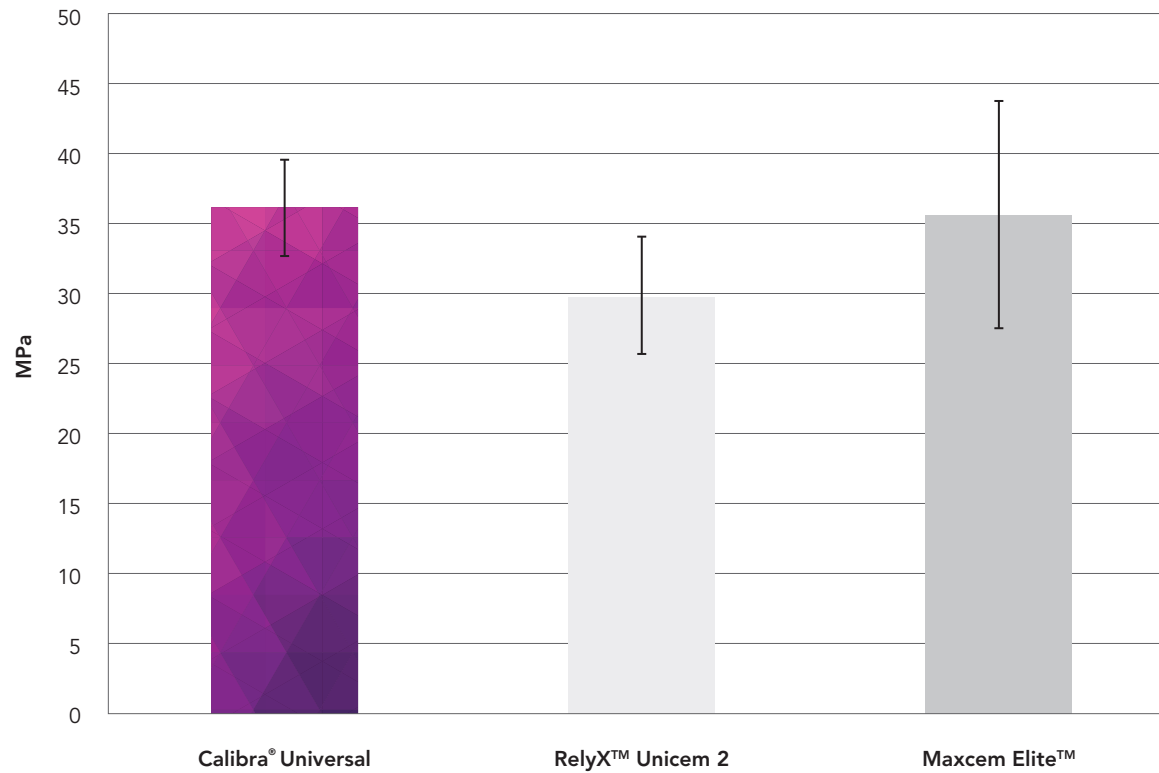
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24 Hour Shear Bond Strength to Zirconia Ceramic



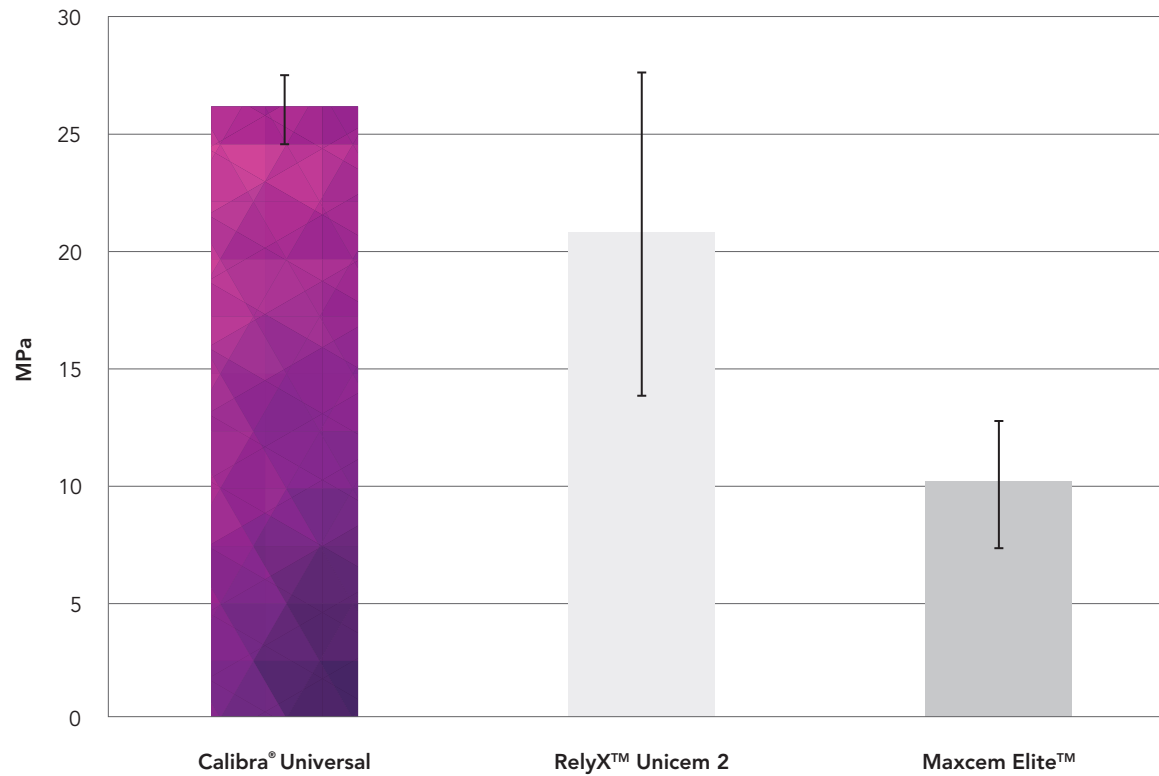
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24 Hour Shear Bond Strength to Base Metal



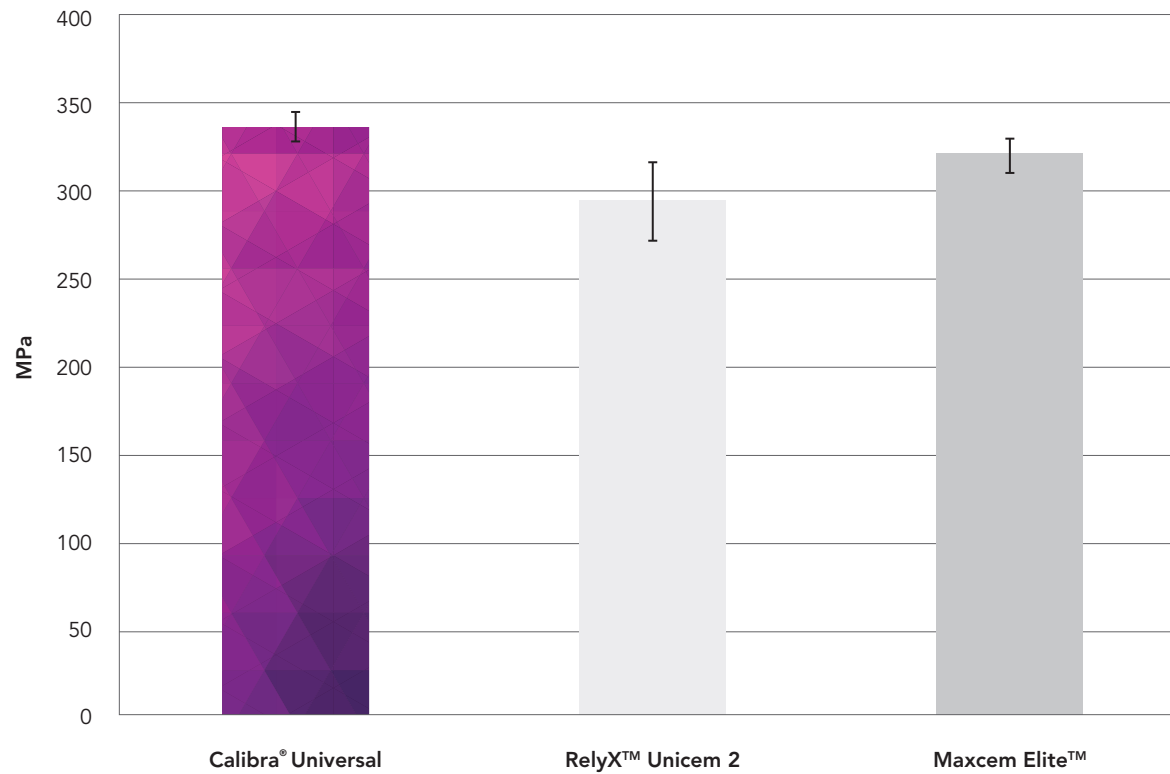
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24 Hour Shear Bond Strength to Noble Metal



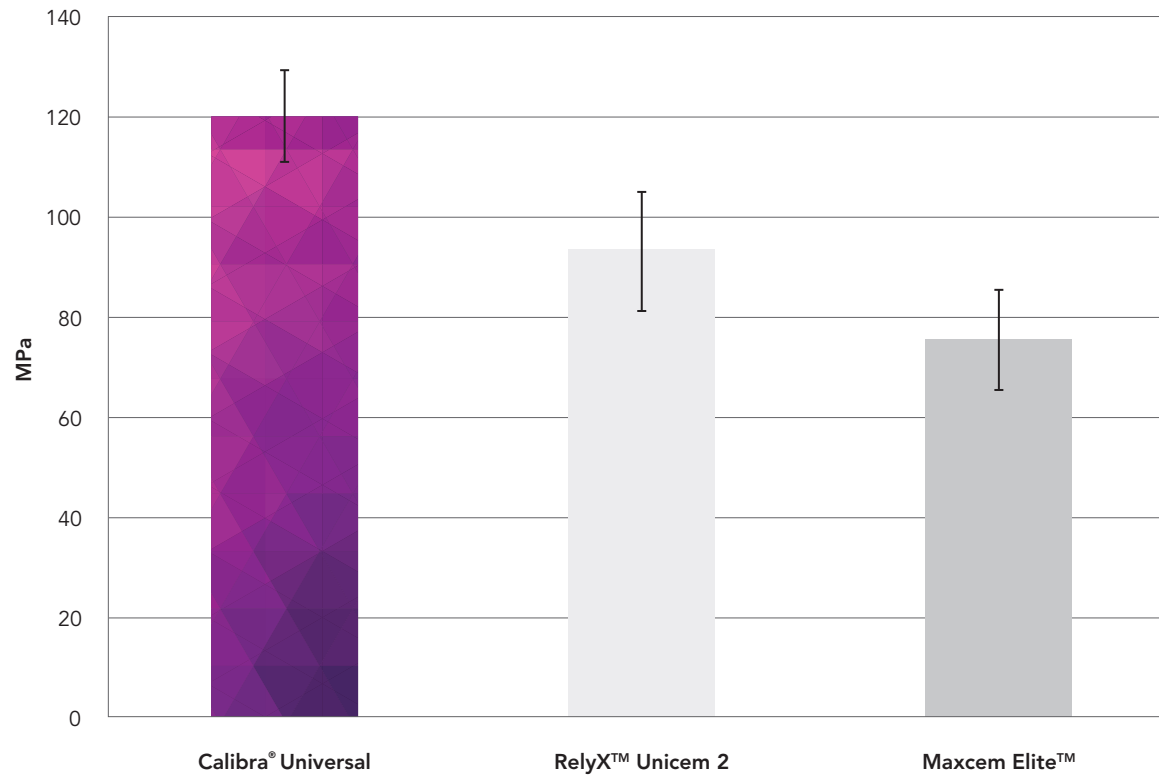
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Compressive Strength, Dual Cure



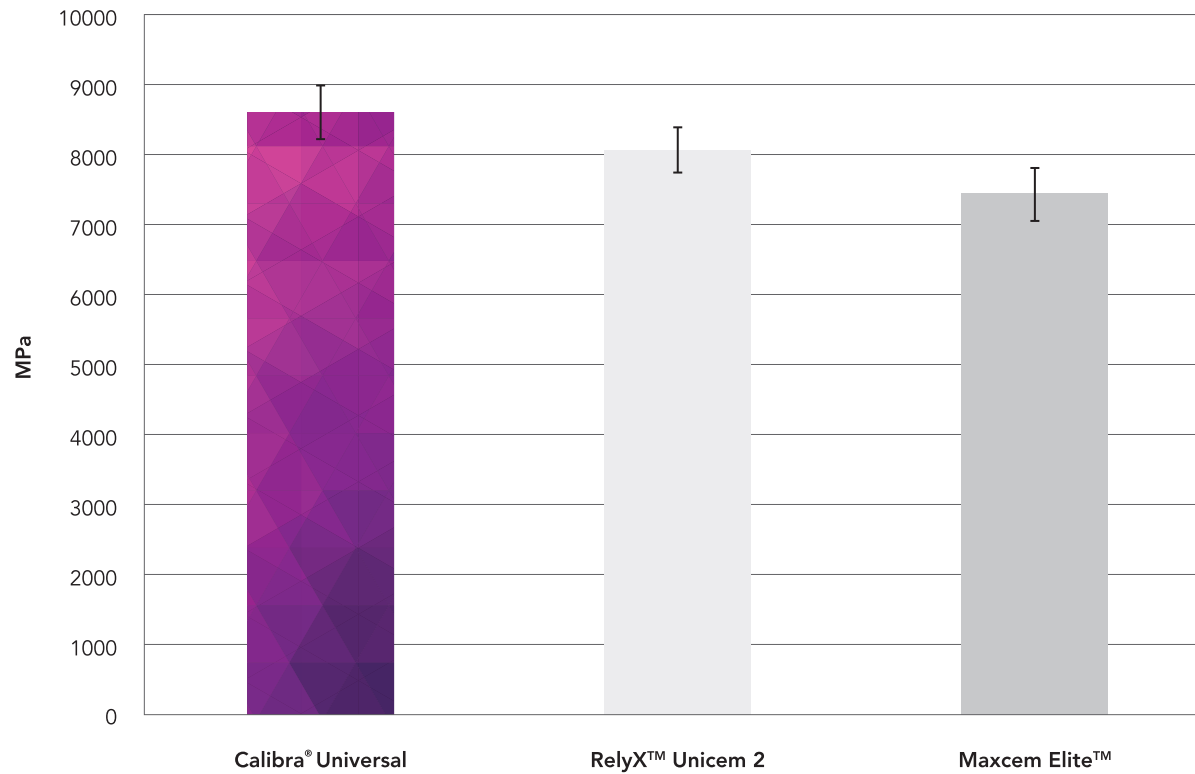
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Flexural Strength, Dual Cure



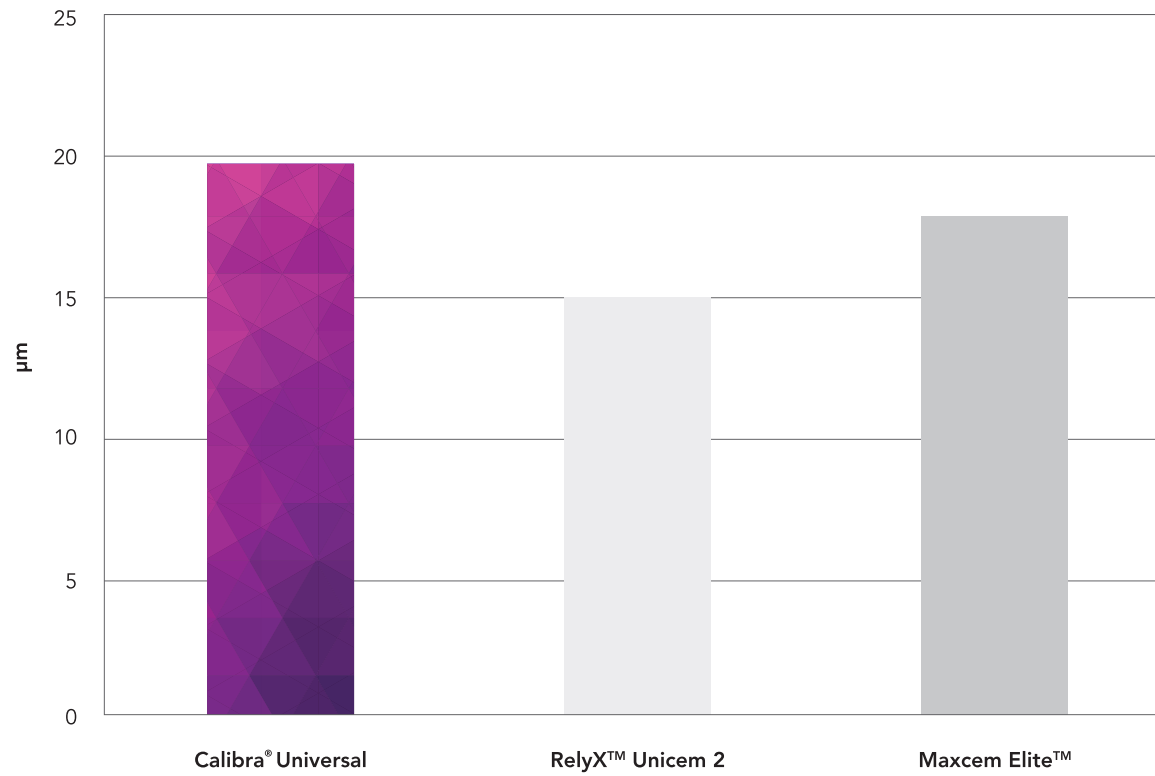
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Flexural Modulus, Dual Cure



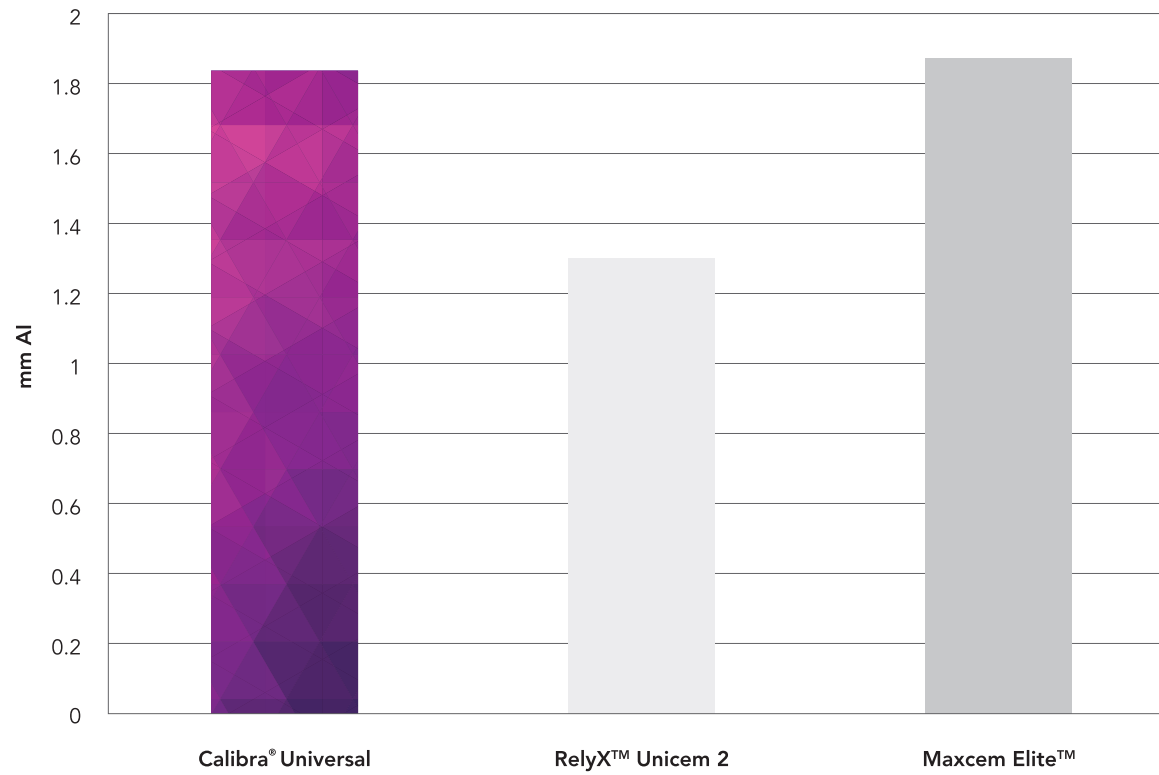
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Film Thickness



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Radiopacity



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