









G-ænial A'CHORD

Simplicity, aesthetics and performance in your hands

| Кеу Мар | |
|----------------------|----------------|
| 4—1 | Strong |
| ∞ | Durable |
| * CC * | Aesthetic |
| \bigcirc | Time-saving |
| \$ | Cost-efficient |





NEW

<u>Surface Gloss, Radiopacity and Shear Bond Strength of Contemporary Universal Composite Resins</u>

Atalay C, Koc Vural U, Tugay B, Miletic I, Gurgan S. Appl.Sci. 2023, 13, 1902.

7

Resistance of Single-shade Composites to Discoloration

Ersöz B, Karaoğlanoğlu S, Oktay EA, Oper Dent. 2022 Nov 1;47(6):686-692.



7

<u>Surface gloss, gloss retention, and color stability of 2</u> nano-filled universal resin composites.

Molina G, Cabral R, Mazzola I, Burrow M. Rest Dent Endod. 2022; 47:e43.



7

Optical Property of Aesthetic Resin Composites

Fukuyo Y, Shinozaki Y, Kariya S. 2023. 52nd Annual Meeting & Exhibition of the AADOCR. J Dent Res Vol 102(Spec Iss A): 0272.



8

Esthetic and Mechanical Durability of Direct-Filling Resin Composite.

Jin S, Machida D, Fusejima F. 2022. 51st Annual Meeting & Exhibition of the AADOCR. 46th Annual Meeting of the CADR. J Dent Res Vol 101 (Spec Iss A):Final Presentation ID 0367.



8







Evaluation of Water Sorption and Color Stability of Paste-Resin Composite.

Mizukami H, Kobayashi M, Niizuma Y, Sugai R, Manabe A. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A):abstract number 2471



9

<u>Surface Gloss and Gloss Retention of Two Nano-Filled</u> Universal Composites.

Molina GF, Mazzola I, Carranza AC, Cabral RJ. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 0550.



9

<u>Light Scattering Property of New Direct-filling Resin</u> <u>Composite.</u>

Parise Gré C, Machida D, Fusejima F. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 0947.



9

<u>Surface Gloss, Radiopacity and Shear-Bond Strength of a Newly Marketed Universal Nanohybrid Composite Resin.</u>

Atalay C, Koc Vural U, Tugay B, Gurgan S. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 2278.



10







Color Stability of Recent Resin Composites

Mizukami H, Suyama Y, Sugai R, Niizuma Y, Kobayashi M, Manabe A, Yamada T, Sugizaki J. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 2279.



10

Evaluation of the Wear Resistance Property of Direct- filling Resin Composite

Jin S, Fusejima F. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 2280.



10

Evaluation of Gloss Retention of Resin Composite After Toothbrush Wear Test

Jin S, Fusejima F. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0231.



11

Fluorescence in Dental Composite Resins

Guadix Tapia J, Gré CP, Lavoix L. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0234.



11







<u>Surface and Handling Characteristics of Universal</u> <u>Restorative Resin Composites.</u>

Säilynoja E, Garoushi S, Prinssi R, Vallittu P, Lassila L. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B):0240.2



11

<u>Three-Body Wear of Modern Universal Restorative</u> Materials Against Zirconia.

Schuessler J, Lohbauer U. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): 0240.1.



12

Comparison of mechanical and optical properties of a newly marketed universal composite resin with contemporary universal composite resins: An in vitro study.

4-1

12

Gurgan S, Koc Vural U, Miletic I. Microsc Res Tech. 2022 Mar;85(3):1171-1179.

| Key Map | |
|------------|----------------|
| 4 | Strong |
| ∞ | Durable |
| . | Aesthetic |
| \bigcirc | Time-saving |
| (\$) | Cost-efficient |





Full paper

G-ænial A'CHORD



| TITLE | Surface Gloss, Radiopacity and Shear Bond Strength of Contemporary Universal Composite Resins |
|-----------|---|
| REFERENCE | Atalay C, Koc Vural U, Tugay B, Miletic I, Gurgan S. Appl.Sci. 2023, 13, 1902. <u>https://www.mdpi.com/2076-3417/13/3/1902</u> |

G -ænial A'CHORD presented superior gloss after both, polishing and immersion in coffee solution.

In combination with G-Premio BOND, G -ænial A'Chord had good bond strength values to enamel and dentin.



With good mechanical and optical properties, optimal results can be achieved with G-ænial A'CHORD, that may help longevity and blend with natural dentition.

| TITLE | Resistance of Single-shade Composites to Discoloration. |
|--|--|
| REFERENCE | Ersöz B, Karaoğlanoğlu S, Oktay EA, Oper Dent. 2022 Nov 1;47(6):686-692. https://doi.org/10.2341/21-156-L |
| G -ænial A'CHORD presented the highest color stability among all materials after immersion in beverages. | |
| G-aenial A'Chord color stability may help in achieving excellent clinical outcomes. | |

| TITLE | Surface gloss, gloss retention and color stability of 2 nano-filled universal resin composites |
|--|---|
| REFERENCE | Molina G, Cabral R, Mazzola I, Burrow M. Rest Dent Endod. 2022; 47:e43. https://doi.org/10.5395/rde.2022.47.e43 |
| G -ænial A'CHORD presented higher surface gloss and better color stability compared to Filtek Universal | |
| The ability to maintain a high gloss and the good color stability may help in achieving excellent clinical outcomes. | |





G-ænial A'CHORD



| TITLE | Optical Property of Aesthetic Resin Composites |
|---|---|
| REFERENCE | Fukuyo Y, Shinozaki Y, Kariya S. 2023. 52 nd Annual Meeting & Exhibition of the AADOCR. J Dent Res Vol 102(Spec Iss A): 0272 https://iadr.abstractarchives.com/abstract/52am-3814672/optical-property-of-aesthetic-resin-composites |
| G-aenial A'CHORD showed intermediate light-scattering effect in-between OMNICHROMA (enamel-like) and Filtek Universal (dentin-like). | |
| G-ænial A'CHORD demonstrated light scattering properties similar to those of enamel and dentin. This may help the material blend with natural dentition. | |

| TITLE | Esthetic and Mechanical Durability of Direct-Filling Resin Composite |
|--|---|
| REFERENCE | Jin S, Machida D, Fusejima F. 2022. 51st Annual Meeting & Exhibition of the AADOCR. 46th Annual Meeting of the CADR. J Dent Res Vol 101 (Spec Iss A):Final Presentation ID 0367. Esthetic and Mechanical Durability of Direct-Filling Resin Composite IADR Abstract Archives |
| G-ænial A'CHORD showed the lowest wear compared to other products. | |
| Due to its formula, G-aenial A'CHORD has excellent wear resistance. This may contribute to | |



Due to its formula, G-aenial A'CHORD has excellent wear resistance. This may contribute to excellent long-term results even under high chewing forces. The ability to maintain a high gloss may help in achieving excellent clinical outcomes.





| TITLE | Evaluation of Water Sorption and Color Stability of Paste-Resin Composite |
|--|--|
| REFERENCE | Mizukami H, Kobayashi M, Niizuma Y, Sugai R, Manabe A. 2020. 98th General Session & Exhibition of the IADR. J Dent Res 99 (Spec Iss A):abstract number 2471. https://iadr.abstractarchives.com/abstract/20iags-3316073/evaluation-of-water-sorption-and-color-stability-of-paste-resin-composite |
| The color change of G-ænial A'CHORD was 85% lower than that of Tetric EvoCeram, Filtek Supreme and Omnichroma. The lowest water sorption was registered for G-ænial A'CHORD. | |
| By lowering water sorption, G-ænial A'CHORD's formulation may help maintain aesthetics by reducing staining in clinical use. | |

| TITLE | Surface Gloss and Gloss Retention of Two Nano-Filled Universal Composites |
|---|---|
| REFERENCE | Molina GF, Mazzola I, Carranza AC, Cabral RJ. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 0550 Surface Gloss and Gloss Retention of Two Nano-Filled Universal Composites IADR Abstract Archives |
| Surface gloss of G-ænial A'CHORD was 13% higher than that of Flitek Universal. Gloss retention was similar for both products. | |
| In addition to lower water sorption reported, the ability to maintain a high gloss may help in achieving excellent clinical outcomes. | |

| TITLE | Light Scattering Property of New Direct-filling Resin Composite |
|---|--|
| REFERENCE | Parise Gré C, Machida D, Fusejima F. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A): abstract number 0947. Light <u>Scattering Property of New Direct-Filling Resin Composite IADR Abstract Archives</u> |
| G-ænial A'CHORD demonstrated light scattering properties similar to those of enamel and dentin. This may help the material blend with natural dentition. | |





| TITLE | Surface Gloss, Radiopacity and Shear-Bond Strength of a Newly Marketed Universal Nanohybrid Composite Resin |
|---|--|
| REFERENCE | Atalay C, Koc Vural U, Tugay B, Gurgan S. 2020. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 2278. SURFACE GLOSS, RADIOPACITY and SHEAR-BOND STRENGTH of a NEWLY MARKETED UNIVERSAL NANOHYBRID COMPOSITE RESIN IADR Abstract Archives |
| G-ænial A'CHORD presented the highest surface gloss and adequate radiopacity. | |
| G-ænial A'CHORD's formula may help the material blend with natural dentition. | |

| TITLE | Color Stability of Recent Resin Composites |
|--|--|
| REFERENCE | Mizukami H, Suyama Y, Sugai R, Niizuma Y, Kobayashi M, Manabe A, Yamada T, Sugizaki J. 2021. 99 th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A):abstract number 2279. <i>Color Stability of Recent Resin Composites IADR Abstract Archives</i> |
| G-ænial A'CHORD presented the lowest color change among the six products tested. | |
| G-ænial A'CHORD's formula may help the material blend with natural dentition. | |

| TITLE | Evaluation of the Wear Resistance Property of Direct-filling Resin Composite |
|--|--|
| REFERENCE | Jin S., Fusejima F. 2021. 99th General Session & Exhibition of the IADR. J Dent Res 100 (Spec Iss A): abstract number 2280. <i>Evaluation of the Wear Resistance Property of Direct-Filling Resin Composite IADR Abstract Archives</i> |
| | |
| Due to its formula, G-aenial A'CHORD has excellent wear resistance. This may contribute to long-term results even under high masticatory forces. | |





| TITLE | Evaluation of Gloss Retention of Resin Composite After Toothbrush Wear Test |
|--|--|
| REFERENCE | Jin S, Fusejima F. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0231. https://ced-iadr2021.com/abstract-book/ p.110. |
| G-ænial A'CHORD maintained the gloss at 50% after 1,200 brushing cycles. | |
| The ability to maintain a high gloss may help in achieving excellent clinical outcome. | |

| TITLE | Fluorescence in Dental Composite Resins |
|---|--|
| REFERENCE | Guadix Tapia J, Gré CP, Lavoix L. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0234. https://ced-iadr2021.com/abstract-book/ p.111 |
| G-ænial A'CHORD presented a uniform response when exposed to different UV lights. | |
| G-ænial A'CHORD's formula may help the material blend with natural dentition. | |

| TITLE | Surface and Handling Characteristics of Universal Restorative Resin Composites |
|---|--|
| REFERENCE | Säilynoja E, Garoushi S, Prinssi R, Vallittu P, Lassila L. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0240.2 https://ced-iadr2021.com/abstract-book/ p.114 |
| G-aenial A'CHORD showed improved surface and optical characteristics and non-sticky consistency in handling. | |
| G-aenial A'CHORD showed improved surface and optical characteristics as well as non-sticky consistency in handling. These clinically relevant findings may indicate good performance of G-aenial A'CHORD as a universal restorative material. | |





G-ænial A'CHORD

| TITLE | Three-Body Wear of Modern Universal Restorative Materials Against Zirconia |
|--|--|
| REFERENCE | Schuessler J, Lohbauer U. 2021. CED-IADR/NOF Oral Health Research Congress. J Dent Res 100 (Spec Iss B): abstract number 0240.1. https://ced-iadr2021.com/abstract-book/ p.114 |
| G-ænial A'CHORD showed the lowest wear compared to other products. | |
| Due to its formula, G-aenial A'CHORD has excellent wear resistance. This may contribute to excellent long-term results even under high chewing forces against Zirconia restorations. | |

Full paper

| TITLE | Comparison of mechanical and optical properties of a newly marketed universal composite resins: An in vitro study |
|--|--|
| REFERENCE | Gurgan S, Koc Vural U, Miletic I. Microsc Res Tech. 2022 Mar;85(3):1171- 1179. doi: 10.1002/jemt.23985. Epub 2021 Nov 12 https://pubmed.ncbi.nlm.nih.gov/34766666/ |
| G-ænial A'CHORD presented low values for surface roughness and color change. Translucency parameter and microhardness were considered good. | |
| With good mechanical and optical properties, optimal results can be achieved with G-ænial A'CHORD, that may help longevity and blend with natural dentition. | |

