

References

As of 28 March 2023



everX Flow™
from GC

Short-fibre reinforced
flowable composite
for dentine replacement

GC



everX Flow

1. Thickness influence of veneering composites on fiber-reinforced systems. J. Tiu, R. Belli, U. Lohbauer. *Dental Materials* 2021 (ahead of print)
DOI: 10.1016/j.dental.2020.12.002
2. Microstructure and surface characteristics of short-fiber reinforced CAD/CAM composite block. E. Mangoush, L. Lassila, P.K. Vallittu, S. Garoushi. *Eur J Prosthodont Restor Dent* 2021 (ahead of print)
DOI: 10.1922/EJPRD_2207Mangoush09
3. Influence of short-fiber composite base on fracture behavior of direct and indirect restorations. S. Garoushi, S. Sungur, Y. Boz, P. Ozkan, P.K. Vallittu, S. Uctasli, L. Lassila. *Clin Oral Investig.* 2021 (ahead of print) DOI: 10.1007/s00784-020-03768-6
4. Fatigue behavior of endodontically treated premolars restored with different fiber-reinforced designs. M. Fráter, T. Sáry, B. Jókai, G. Braunitzer, E. Säilynoja, P. Vallittu, L. Lassila, S. Garoushi. *Dental Materials* 2021 (ahead of print)
DOI: 10.1016/j.dental.2020.11.026
5. Effect of layering techniques on polymerization shrinkage stress of high- and low-viscosity bulk-fill resins. A. Tsujimoto, C.A. Jurado, W.W. Barkmeier, M.E. Sayed, T. Takamizawa, M.A. Latta, M. Miyazaki, F. Garcia-Godoy. *Oper Dent* 2020; 45(6):655-663. DOI: 10.2341/19-217-L
6. Efficacy of Bulk Fill Flowable Composite Reinforced with Short Fibers in Fracture Resistance of Restored Extensive Premolars Cavities. A. Abogabal, A. Goda. *Al-Azhar Assiut Dental Journal* 3(2):153-172.
7. Replacing mandibular central incisors with a direct resin-bonded fixed dental prosthesis by using a bilayering composite resin injection technique with a digital workflow: A dental technique. K. Hosaka, A. Tichy, Y. Hasegawa, Y. Motoyama, M. Kanazawa, J. Tagami, M. Nakajima. *J Prosthet Dent* 2020 Aug 13:S0022-3913(20)30375-9. DOI: 10.1016/j.prosdent.2020.05.007
8. Influence of short fibre-reinforced composites on fracture resistance of single-structure restorations. E. Mangoush, S. Garoushi, PK Vallittu, L. Lassila. *Eur J Prosthodont Restor Dent* 2020 Nov 30;28(4):189-198.
DOI: 10.1922/EJPRD_2075Mangoush10
9. Bioblock technique to restore a severe internal resorption with subsequent periapical pathology – a case report. M. Fráter, T. Sáry, S. Garoushi. *Restor Dent Endod.* 2020 Aug 18;45(4):e43. DOI: 10.5395/rde.2020.45.e43
10. Bilayered composite restoration: The effect of layer thickness on fracture behavior. L. Lassila, E. Säilynoja, R. Prinsi, P. Vallittu, S. Garoushi. *Biomater Investig Dent.* 2020 Jun 2;7(1):80-85. DOI: 10.1080/26415275.2020.1770094
11. Fatigue failure load of immature anterior teeth: influence of different fiber post-core systems. M. Fráter, T. Sáry, V. Néma, G. Braunitzer, P. Vallittu, L. Lassila, S. Garoushi. *Odontology.* 2021 Jan;109(1):222-230. DOI: 10.1007/s10266-020-00522-y



12. Characterization of restorative short-fiber reinforced dental composites. L. Lassila, F. Keulemans, PK. Vallittu, S. Garoushi. Dent Mater J. 2020 Dec 3;39(6):992-999. DOI: 10.4012/dmj.2019-088
13. The influence of resin composite with high fiber aspect ratio on fracture resistance of severely damaged bovine incisors. L. Lassila, V. Oksanen, M. Fráter, PK. Vallittu, S. Garoushi. Dent Mater J 2019;10.4012 DOI: 10.4012/dmj.2019-051
14. Rising R-curves in particulate/fiber-reinforced resin composite layered systems. J. Tiu, R. Belli, U. Lohbauer. J Mech Behav Biomed Mater 2019;103:103537. DOI: 10.1016/j.jmbbm.2019.103537
15. The effect of polishing protocol on surface gloss of different restorative resin composites. L. Lassila, E. Säilynoja, R. Prinssi, PK. Vallittu, S. Garoushi. Biomater Investig Dent 2020;7(1):1-8. DOI: 10.1080/26415275.2019.1708201
16. Fracture behavior of Bi-structure fiber-reinforced composite restorations. L. Lassila, E. Säilynoja, R. Prinssi, P.K. Vallittu, S. Garoushi. J Mech Behav Biomed Mater. 2020 Jan;101:103444. DOI: 10.1016/j.jmbbm.2019.103444
17. Mechanical properties and fracture behavior of flowable fiber reinforced composite restorations. L. Lassila, F. Keulemans, E. Säilynoja, P.K. Vallittu, S. Garoushi. Dent Mater. 2018 Apr;34(4):598-606. DOI: 10.1016/j.dental.2018.01.002
18. Mechanical properties and radiopacity of flowable fiber-reinforced composite. S. Garoushi, PK. Vallittu, L. Lassila. Dent Mater J. 2019 Mar 31;38(2):196-202. DOI: 10.4012/dmj.2018-102
19. Characterization of a new fiber-reinforced flowable composite. L. Lassila, E. Säilynoja, R. Prinssi, P. Vallittu, S. Garoushi. Odontology 2019; 107:342-352 DOI: 10.1007/s10266-018-0405-y
20. R-curve behavior of a short-fiber reinforced resin composite after water storage. J. Tiu, R. Belli, U. Lohbauer. Journal of the Mechanical Behavior of Biomedical Materials 104 (2020) 103674 DOI: 10.1016/j.jmbbm.2020.103674
21. Fracture Behavior of Short Fiber-Reinforced Direct Restorations in Large MOD Cavities. M. Fráter, T. Sáry, E. Vincze-Bandi, A. Volom, G. Braunitzer, P. Szabó, S. Garoushi, A. Forster. Polymers **2021**, 13, 2040. <https://doi.org/10.3390/polym13132040>
22. Fatigue performance of endodontically treated premolars restored with direct and indirect cuspal coverage restorations utilizing fiber-reinforced cores. M. Fráter, T. Sáry, J. Molnár, G. Braunitzer, L. Lassila, P.K. Vallittu, S. Garoushi. Clinical Oral DOI: 10.1007/s00784-021-04319-3
23. Characterization of Experimental Short-Fiber-Reinforced Dual-Cure Core Build-Up Resin Composites. Säilynoja E, Garoushi S, Vallittu PK, Lassila L. Polymers (Basel). 2021 Jul 12;13(14):2281. DOI: 10.3390/polym13142281
24. Polymerization Shrinkage of Short Fiber Reinforced Dental Composite Using a Confocal Laser Analysis. D. Miura, Y. Ishida, A. Shinya. Polymers (Basel). 2021 Sep 13;13(18):3088.



25. Comparative Evaluation of Mechanical Properties of Titanium Dioxide Nanoparticle Incorporated in Composite Resin as a Core Restorative Material. Dhanasekaran Sihivahanan, Venugopal V Nandini. *J Contemp Dent Pract.* 2021 Jun 1;22(6):686-690.
26. Fatigue failure of anterior teeth without ferrule restored with individualized fiber-reinforced post-core foundations. M. Fráter, T. Sáry, G. Braunitzer, P Balázs Szabó, L. Lassila, P.K. Vallittu, S. Garoushi. *J Mech Behav Biomed Mater.* 2021 Jun; 118:104440 <https://doi.org/10.1016/j.jmbbm.2021.104440>
27. The influence of FRC base and bonded CAD/CAM resin composite endocrowns on fatigue behavior of cracked endodontically-treated molars. Anton Y Otero C, Bijelic-Donova J, Saratti CM, Vallittu PK, di Bella E, Krejci I, Rocca GT. *J Mech Behav Biomed Mater.* 2021 Jun 15;121:104647. DOI: 10.1016/j.jmbbm.2021.104647
28. Influence of Post-Core and Crown Type on the Fracture Resistance of Incisors Submitted to Quasistatic Loading. Uctasli S, Boz Y, Sungur S, Vallittu PK, Garoushi S, Lassila L. *Polymers (Basel).* 2021 Apr 2;13(7):1130. doi: 10.3390/polym13071130. DOI: 10.3390/polym13071130
29. Degree of conversion and in vitro temperature rise of pulp chamber during polymerization of flowable and sculptable conventional, bulk-fill and short-fibre reinforced resin composites. Lempel E, Óri Z, Kincses D, Lovász BV, Kunsági-Máté S, Szalma J. *Dent Mater.* 2021 Mar 10:S0109-5641(21)00075-0. DOI: 10.1016/j.dental.2021.02.013
30. Thickness influence of veneering composites on fiber-reinforced systems. J. Tiu, R. Belli, U. Lohbauer. *Dent Mater.* 2021 Mar;37(3):477-485. DOI: 10.1016/j.dental.2020.12.002
31. Microstructure and surface characteristics of short-fiber reinforced CAD/CAM composite block. Mangoush E, Lassila L, Vallittu PK, Garoushi S. *Eur J Prosthodont Restor Dent.* 2021 Aug 31;29(3). DOI: 10.1922/EJPRD_2207Mangoush09
32. Influence of short-fiber composite base on fracture behavior of direct and indirect restorations. Garoushi S, Sungur S, Boz Y, Ozkan P, Vallittu PK, Uctasli S, Lassila L. *Clin Oral Investig.* 2021 Jul;25(7):4543-4552 DOI: 10.1007/s00784-020-03768-6
33. Fatigue behavior of endodontically treated premolars restored with different fiber-reinforced designs. Fráter M, Sáry T, Jókai B, Braunitzer G, Säilynoja E, Vallittu PK, Lassila L, Garoushi S. *Dent Mater.* 2021 Mar;37(3):391-402 DOI: 10.1016/j.dental.2020.11.026
34. Effect of layering techniques on polymerization shrinkage stress of high- and low-viscosity bulk-fill resins. Tsujimoto A, Jurado CA, Barkmeier WW, Sayed ME, Takamizawa T, Latta MA, Miyazaki M, Garcia-Godoy F. *Oper Dent* 2020; 45(6):655-663. DOI: 10.2341/19-217-L
35. Replacing mandibular central incisors with a direct resin-bonded fixed dental prosthesis by using a bilayering composite resin injection technique with a digital workflow: A dental technique. Hosaka K, Tichy A, Hasegawa Y, Motoyama Y, Kanazawa M, Tagami J, Nakajima M. *J Prosthet Dent* 2020 Aug 13:S0022-3913(20)30375-9. DOI: 10.1016/j.prosdent.2020.05.007
36. Influence of short fibre-reinforced composites on fracture resistance of single-structure restorations. Mangoush E, Garoushi S, Vallittu PK, Lassila L. *Eur J*



Prosthodont Restor Dent 2020 Nov 30;28(4):189-198.
DOI: 10.1922/EJPRD_2075Mangoush10

37. Bioblock technique to restore a severe internal resorption with subsequent periapical pathology – a case report. M. Fráter, T. Sáry, S. Garoushi. Restor Dent Endod. 2020 Aug 18;45(4):e43. DOI: 10.5395/rde.2020.45.e43

38. Bilayered composite restoration: The effect of layer thickness on fracture behavior. Lassila L, Säilynoja E, Prinssi R, Vallittu P, Garoushi S. Biomater Investig Dent. 2020 Jun 2;7(1):80-85. DOI: 10.1080/26415275.2020.1770094

39. Fatigue failure load of immature anterior teeth: influence of different fiber post-core systems. Fráter M, Sáry T, Néma V, Braunitzer G, Vallittu P, Lassila L, Garoushi S. Odontology. 2021 Jan;109(1):222-230. DOI: 10.1007/s10266-020-00522-y

40. Characterization of restorative short-fiber reinforced dental composites. Lassila L, Keulemans F, Vallittu PK, Garoushi S. Dent Mater J. 2020 Dec 3;39(6):992-999. DOI: 10.4012/dmj.2019-088

41. The influence of resin composite with high fiber aspect ratio on fracture resistance of severely damaged bovine incisors. Lassila L, Oksanen V, Fráter M, Vallittu PK, Garoushi S. Dent Mater J 2019;10.4012 DOI: 10.4012/dmj.2019-051

42. Rising R-curves in particulate/fiber-reinforced resin composite layered systems. Tiu J, Belli R, Lohbauer U. J Mech Behav Biomed Mater 2019;103:103537. DOI: 10.1016/j.jmbbm.2019.103537

43. The effect of polishing protocol on surface gloss of different restorative resin composites. Lassila L, Säilynoja E, Prinssi R, Vallittu PK, Garoushi S. Biomater Investig Dent 2020;7(1):1–8. DOI: 10.1080/26415275.2019.1708201

44. Fracture behavior of Bi-structure fiber-reinforced composite restorations. Lassila L, Säilynoja E, Prinssi R, Vallittu PK, Garoushi S. J Mech Behav Biomed Mater. 2020 Jan;101:103444. DOI: 10.1016/j.jmbbm.2019.103444

45. Mechanical properties and radiopacity of flowable fiber-reinforced composite. Garoushi S, Vallittu PK, Lassila L. Dent Mater J. 2019 Mar 31;38(2):196-202. DOI: 10.4012/dmj.2018-102

46. Characterization of a new fiber-reinforced flowable composite. Lassila L, Säilynoja E, Prinssi R, Vallittu P and Garoushi S. Odontology 2019; 107:342-352. DOI: 10.1007/s10266-018-0405-y

47. Mechanical properties and fracture behavior of flowable fiber reinforced composite restorations. Lassila L, Keulemans F, Säilynoja E, Vallittu PK, Garoushi S. Dent Mater. 2018 Apr;34(4):598-606. DOI: 10.1016/j.dental.2018.01.002

48. Comparison of a physical and Biological Properties of a Flowable Fiber Reinforced and Bulk Filling Composites. N. Attik, P. Colon, R. Gauthier, Ch. Chevalier, B. Grosgeat, H. Abouelleil. Dental Materials, December 2021. <https://doi.org/10.1016/j.dental.2021.12.029>.

49. Flowable fiber-reinforced versus flowable bulk-fill resin composites: Degree of conversion and microtensile bond strength to dentin in high C-factor cavities. Harp, Y. S., Montaser, M. A., & Zaghoul, N. M. (2022). Journal of Esthetic and Restorative Dentistry, 34(4), 699–706. <https://doi.org/10.1111/jerd.12901>



50. Short fiber-reinforced resin-based composites (SFRCs); Current status and future perspectives. A. Alshabib, C.A. Jurado, A. Tsujimoto. *Dental Materials Journal* 2022. doi:10.4012/dmj.2022-080 JOI JST.JSTAGE/dmj/2022-080
51. Does etching mode affect bonding of resin composites to TheraCal-LC? M. Dogan, C. Deger. Abstract O164 – PER-IADR Marseille, September 2022
52. Optical Characteristics of Short Fiber-Reinforced Composite in Bilayered Structure. A. Sarmiala, L. Lassila, T. Närhi, P. Vallittu, A.-M. Le Bell-Rönnlöf. Abstract P263 – PER-IADR Marseille, September 2022
53. Temperature Increase During Polymerization in Short Fiber-Reinforced Composites. A.-M. Le Bell-Rönnlöf, H. Paatsamala, T. Närhi, P. Vallittu, L. Lassila. Abstract P286, PER-IADR Marseille, September 2022
54. Particulate Filler and Discontinuous Fiber Filler Resin Composite 'S Adaptation and Bonding to Intra-Radicular Dentin. M. Ferrari, E. Lettieri, D.I.K. Pontoriero, P. Vallittu, E. Ferrari Cagidiaco. Preprints (www.preprints.org), NOT PEER-REVIEWED, Posted: 21 December 2022 doi:10.20944/preprints202212.0372.v1
55. Khan, A. A., Zafar, M. S., Fareed, M. A., AlMufareh, N. A., Alshehri, F., AlSunbul, H., Lassila, L., Garoushi, S., & Vallittu, P. K. (2023). Fiber-reinforced composites in dentistry – An insight into adhesion aspects of the material and the restored tooth construct. *Dental Materials*, 39(2), 141–151. <https://doi.org/10.1016/j.dental.2022.12.003>
56. Comparative Evaluation of Two Different Fiber-Reinforced Composite Materials in Class 1 Post-Endodontic Restorations in Molars—A Randomized Clinical Study. S. Ranka, A. Rao, U. Shah, D. Solanki, A. Pawar, R. Reda, A. Zanza, L. Testarelli. (2022). *Materials*, 15(21), 7858. <https://doi.org/10.3390/ma15217858>
57. Wear behavior at margins of direct composite with CAD/CAM composite and enamel. Lassila, L., Novotny, R., Säilynoja, E., Vallittu, P. K., & Garoushi, S. (2023). *Clinical Oral Investigations*, 1, 1–8. <https://doi.org/10.1007/s00784-023-04883-w>
58. Fatigue performance of endodontically treated molars reinforced with different fiber systems. A. Volom, E. Vincze-Bandi, T. Sáry, D. Alleman, A. Forster, A. Jakab, G. Braunitzer, S. Garoushi, M. Fráter. *Clinical Oral Investigations*, 1–10, 2023 <https://doi.org/10.1007/s00784-023-04934-2>

Abstracts

1. Mechanical properties and fracture behavior of biomimetic fiber reinforced composite restorations. L. Lassila, F. Keulemans, P. Vallittu, S. Garoushi. TCBC
2. Bonding interface affects load-bearing capacity of bi-layered composites. T.Omran, S. Garoushi, L. Lassila, P. Vallittu. TCBC
3. Comparative Radiopacity of Different Posterior Restorative Materials. Ergucu Z , Balci M , Güneri P, Boyacioglu HL, Turkun S. CED-IADR, Madrid, 2019
4. Mechanical Behaviour and Shrinkage Stress of Fiber Reinforced Flow Composite. Available on: <https://iadr.abstractarchives.com/abstract/ced-iadr2019-3221461/mechanical-behaviour-and-shrinkage-stress-of-fiber-reinforced-flow-composite>



5. Interfacial bond strength and fracture behavior of Bi-layered composite structures. Reprinted with permission from the *Journal of Dental Research, J Dent Res* 98 (Spec Iss A):abstract number, URL, 2019 abstract number 3635, <https://iadr2019.zerista.com/event/member/582581>, 2019
6. Mechanical Properties of Novel Fiber-reinforced Flowable Composite Resin. A. Tachino et al. everX Flow, *J Dent Res J Dent Res* Vol 99 (Spec Iss A): 1837, <https://iadr2020.zerista.com/event/member/677721>, 2020
7. The Effect of Polishing Technique on Surface Gloss of Different Restorative Resin Composites. E. Säilynoja et al. *J Dent Res J Dent Res* Vol 99 (Spec Iss A): 1867, <https://iadr2020.zerista.com/event/member/677978>, 2020
8. Fiber Reinforcement of Endodontically Treated Teeth: What Options Do We Have? Sufyan G. et al. *Eur J Prosth Rest Dent*. Ahead of publishing.