

els bulkfill/ Technical Data

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| Monomer matrix | BisGMA / BisEMA |
| Filler | BaAlBSi, silanized, (\varnothing 0,7 μm , max 2,6 μm ; YbF ₃) |
| Filler content | 52 % |
| Sensitivity to ambient light | meets the requirements |
| Depth of cure | 5.4 mm after 20 seconds |
| Flexural strength | 113 \pm 14 MPa [1] |
| Modulus of elasticity | 4,4 \pm 0.2 GPa |
| Colour stability | Stable according to ISO 4049 |
| Radioopacity | 280% Aluminium |
| Barcol hardness | > 55 |
| Shrinkage | 3,44 % after 30 minutes. [2] |
| Polymerization shrinkage stress | 2,4 MPa after 30 minutes [3] |
| Water sorption | 18 \pm 2 $\mu\text{g}/\text{mm}^3$ [1] |
| Solubility | 1.8 \pm 0.4 $\mu\text{g}/\text{mm}^3$ [1] |

[1] Report on the physical properties of ELS Bulkfill; Maria CATTANI-LORENTE; DEPARTEMENT DE REHABILITATION ORO-FACIALE DIVISION DE PROTHESE FIXE ET BIOMATERIAUX Geneva January, 2015

[2] *SETTING SHRINKAGE STRESS OF FIVE DIFFERENT BULK FILL COMPOSITES* J. Rezende and C.J. Kleverlaan Research number P2015.001 Shrinkage Stress July 13, 2015

[3] Setting Shrinkage of five different bulk fill composites determined in the ACTA dilatometer C.J. Kleverlaan and J.A. Rezende Research number P2015.002 Shrinkage July 13, 2015