

els extra low shrinkage[®] bulkfill

Technical Data

Resin matrix	BisGMA / BisEMA
Filler	BaAlBSi, silanized, (ϕ 0,7 μ m, max 2,6 μ m; 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 μ g/mm ³ [1]
Solubility	1.8 \pm 0.4 μ g/mm ³ [1]



- [1] Report on the physical properties of els bulkfill; Maria CATTANI-LORENTE; DEPARTEMENT DE REHABILITA-TION 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

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