

els extra low shrinkage / Technical Data

Resin	BisGMA / ethoxylated Bisphenol-A-Dimethacrylate-(< 25 %)
Mineral filler content	BaAlBSi, silanized, ø 0,7 µm, max. 2,6 µm (< 75 %)
Operation light resistance	> 7 min at 11000 lux
Depth of cure	2.8 mm in 20 s/ 2.9 mm in 40 s ²⁾
Flexural strength	120 MPa
Flexural modulus	9.0 GPa
Water sorption	0.21 % (24 h) / 0.60 % (7 d) ³⁾
Dissolution	0.03 % (24 h) / 0.09 % (7 d) ³⁾
Shades	matching VITA Shade Guide
Colour Stability	stable according to ISO
Radio-opacity	217% Aluminium
Vickers Hardness	68 (at 0.3 mm, 7 d) ¹⁾
Barcol Hardness	81
Polymerization shrinkage stress	4.2 MPa after 30 min ⁴⁾
Volumetric shrinkage	1.3 vol% (60 s) / 2.5 vol% (240 min) ⁴⁾
Wear	63 µm (60 d) (ACTA, ISO 14569-2) ⁵⁾
Consistency	highly viscous, homogeneous paste
Appearance after curing	homogeneous, smooth and shiny surfaces
Conformity with ISO 4049, DIN, ADA, BSI	fulfilled

1) Prof. Jean-Marc MEYER, University of Geneva, 2002, unpublished

2) C.J. KLEVERLAAN, A.J. DE GEE, ACTA, 2002, unpublished

3) Dr. Maria CATTANI, University of Geneva, 2005, unpublished

4) Prof. A.J. FEILZER, A.J. DE GEE, ACTA, 2005, published

5) A. WERNER, A.J. DE GEE, ACTA, 2003, unpublished