

apt (advanced polymer technology)

Technical Data

Resin	BisEMA / aromatic urethanemethacrylate- (< 25 %)
Mineral filler content	BaAlBSi, silanized, Ø 0,7 µm, max. 2,6 µm (> 73 %)
Depth of cure	2.6 mm (ISO 4049)
Flexural strength	145±9 MPa (ISO 4049) ²⁾
Flexural modulus	8.8 ±0.8 GPa ²⁾
Shades	matching VITA Shade Guide
Colour Stability	stable according to ISO 4049
Radio-opacity	290% Aluminium
Barcol Hardness	73
Water sorption	10.8 ± 0.5 µg/mm ³ (ISO 4049) ²⁾
Solubility	2.3 ± 0.1 µg/mm ³ (ISO 4049) ²⁾
Polymerization shrinkage stress	3.1 MPa after 30 min ¹⁾
Appearance after curing	finely, compact and shiny surfaces
Conformity with ISO 4049	fulfilled

1) C.J. KLEVERLAAN, Rezende, ACTA, 2018, unpublished

2) Report on the physical properties, Dr. Mustapha Mekki, Universität Genf, unpublished