

apt[®] advanced polymer technology composite

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 ²⁾
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¹⁾ C.J. KLEVERLAAN, Rezende, ACTA, 2018, unpublished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 Mustapha Mekki, Universität Genf, unpublished