

# RODIN Titan

## Technical data sheet

Property	Result	Testing Protocols
Tooth Shades	BL, B1, A1, A2	N/A
Density	1.55 - 1.65 g/cm <sup>3</sup>	N/A
Viscosity	2000 - 3000 cP	N/A
Bi-Axial Flexural Strength	141 - 170 MPa	**ISO 6872: 2015
3pt Bend-Flexural Strength	133 - 152 MPa	**ISO 10477:2004
3pt Bend-Flexural Modulus	3800 - 4700 MPa	ISO 10477:2004
Fracture Toughness	4.3 ± 0.15 MPa m <sup>½</sup>	20795-2: 2013
Work of Fracture	2442 ± 296 (J/m <sup>2</sup> )	20795-2: 2013
Vickers Hardness	36	**ISO 6507
Water Solubility	< 1 µg/mm <sup>3</sup>	ISO 4049: 2019
Water Sorption	< 20 µg/mm <sup>3</sup>	ISO 4049: 2019
Opacity	<70% @ 1mm thickness	N/A
Radiopacity	>200	ISO 13116: 2014
Layer Thickness	50 -100µm	N/A
Wavelength	385/405 nanometer	N/A
Biocompatibility	Non-Cytotoxic - Comply	ISO 10993-1
Biocompatibility	Non-Mutagenic - Comply	ISO 10993-1
Biocompatibility	Sensitivity - Comply	ISO 10993-1
Biocompatibility	Induced Reactions - Comply	ISO 10993-1
Biocompatibility	Systemic Toxicity - Comply	ISO 10993-1

all samples cured with Otoflash at 5000flashes

**\*\*Testing performed by Boston University Goldman School of Dental Medicine**