

RODIN RapidCeram

Technical data sheet

Property	Result	Testing Protocols
Tooth Shades	OM3, B1, A1, A2	N/A
Density	1.55 - 1.65 g/cm ³	N/A
Viscosity	800 - 1400 cP	N/A
3pt Flexural Strength	140 ± 15 Mpa	**ISO 10477: 2020
Flexural Modulus	6700 ± 686 Mpa	**ISO 10477: 2020
Bi-Axial Flexural Strength	150 - 181 Mpa	**ISO 6872: 2015
Fracture Toughness	2.4 ± 0.5 MPa m ^{1/2}	**20795-2: 2013
Work of Fracture	945 ± 203 (J/m ²)	**20795-2: 2013
Wear Rate (wt)	1.4 mg/million cycles	**BUGSDM
Wear Rate (ht)	0.1 mm/million cycles	**BUGSDM
Filler Content	53 ± 2%	**BUGSDM
Hardness	≥ 95 Shore D	ASTM D2240
Water Solubility	< 1 µg/mm ³	ISO 4049: 2019
Water Sorption	< 15 µg/mm ³	ISO 4049: 2019
Opacity	62% @ 1mm thickness	N/A
Radiopacity	200	ISO 13116: 2014
Layer Thickness	50 µm	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

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