

Accura[®] e-Stone[™] Material

For Digital Dental Model Production



Accura[®] e-Stone[™] material is compatible with all intraoral and impression scanning systems that output an .stl file to produce accurate, durable models of individual teeth and arches with crisp resolution.

Normal dental lab practices, including drilling, grinding and waxing, can be used with Accura[®] e-Stone[™] material. Due to its high accuracy and repeatability, this material can also be used as a fit-check model for all-digital restorations.

Features

- Durable
- Accurate
- Selection of color
- Digital production

Benefits

- Compatible with standard dental lab practices
- Reduce breakage vs. plaster
- Decreased steps vs. impression based systems
- Increased visual detail for better margin viewing
- Reproducible & archivable for easy remakes



Applications

- Replacement for dental stone
- Crown and bridge restorations
- Orthodontic working and study models



Accura[®] e-Stone[™] Material

For use with solid-state stereolithography (SLA[®]) Systems

Accura[®] e-Stone[™] material is designed to produce dental models from data derived from digital scanners without pouring traditional stone models, saving time and money for dentists and dental laboratories and reducing infection risks.



Technical Data

Liquid Material

Measurement	Condition	Value
Appearance		Peach, Green
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm ³
Solid Density	@ 25 °C (77 °F)	1.19 g/cm ³
Viscosity	@ 30 °C (86 °F)	200-300 cps
Penetration Depth (Dp)*		4.2 mils
Critical Exposure (Ec)*		10.5 mJ/cm ²
Tested Build Styles		EXACT [™]

Post-Cured Material

Measurement	Condition	Metric	U.S.
Tensile Strength	ASTM D 638	37 - 39 MPa	5400 - 5600 PSI
Tensile Modulus	ASTM D 638	1500 - 1750 MPa	220 - 250 KSI
Elongation at Break (%)	ASTM D 638	10 - 23%	10 - 23%
Flexural Strength	ASTM D 790	54 - 59 MPa	7800 - 8500 PSI
Flexural Modulus	ASTM D 790	1350 - 1750 MPa	200 - 250 KSI
Impact Strength (Notched Izod)	ASTM D 256	18 - 25 J/m	0.3 - 0.5 ft-lb/in
Heat Deflection Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	58 - 63 °C 51 - 55 °C	145 °F 131 °F
Shore D		80	
Glass Transition (Tg)	DMA, E"	60 °C	140 °F

* Dp/Ec values are the same on all systems.



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