Accura® e-Stone™ Material

For use with solid-state stereolithography (SLA) Systems

Post-Cured Material

MEASUREMENT	CONDITION	METRIC	U.S.
Tensile Strength (MPa/PSI)	ASTM D 638	37-39	5400-5600
Tensile Modulus (MPa/KSI)	ASTM D 638	1500-1750	220-250
Elongation at Break (%)	ASTM D 638	10-23 %	10-23 %
Flexural Strength (MPa/PSI)	ASTM D 790	54-59	7800-8500
Flexural Modulus (MPa/KSI)	ASTM D 790	1350-1750	220-250
Impact Strength (J/m /Ft-lbs/in)	ASTM D 256	18-25	0.2-0.5
Heat Deflection Temperature	ASTM D 648 @ 66 PSI @ 264 PSI	 58-63 °C 51-55 °C	 145 °F 131 °F
Glass Transition (Tg)	DMA, E"	60 °C	140 °F
Hardness, Shore D		80	80

Liquid Material

MEASUREMENT	CONDITION	VALUE
Viscosity	@ 30 °C (86 °F)	220 cps
Penetration Depth (Dp)		4.2 mils
Critical Exposure (Ec)		10.5 mJ/cm2
Color		Peach
Solid Density	@ 25 °C (77 °F)	1.19 g/cm^3 at 25 °C
Liquid Density	@ 25 °C (77 °F)	1.13 g/cm^3 at 25 °C
Tested Build Styles		EXACT™

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 and archivable for easy remakes

Applications

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

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