

### Custom Tray Material



#### General

Stern Tek Custom Tray Material is a light-cure impression tray material for the preparation of custom trays used for precision work for crowns, bridges, partial and total prostheses. Polymerization is achieved by the usual UV-light and/or halogen light units.

#### Properties

- Economical to use in prefabricated sheets
- Good malleability, easy to adapt, easy to trim
- Sufficient working time with usual light curing units
- Even thickness
- Odourless
- Extra material is reusable
- Quick setting time with usual light polymerization lamps
- Stable, not easily deformed during impression taking

#### Properties Of The Finished Custom Tray

- Ready for impression directly after manufacturing, no re-polymerization
- Withstands flexing during impression taking (high modulus of elasticity)
- Disinfection with standard disinfection solution does not harm the tray
- Electroplating has no influence on the stability of the tray
- The material is compatible with the usual elastomeric impression materials

#### Recommended Procedure

1. Block out undercuts on the model with a suitable material, e.g. silicone impression material. Mark the line of the tray with a pencil and fabricate a place-marker of modelling wax. Exposed portions of the stone have to be treated with a separating material, e.g. tinfoil substitute, petroleum jelly.
2. Take off the protective cover from the material and adapt the pre-fabricated tray material on the model. Remove the surplus tray material along the pencil mark with a knife; make a tray handle out of it and attach it to the tray. Joints in the material can easily be smoothed with petroleum jelly.
3. The tray is polymerized on the model in a usual light unit. Before polymerization the outside of the tray may be coated with Stern Vantage Varnish LC and both materials can be cured at the same time. This treatment produces a dry, very shiny tray surface.

4. After polymerization the tray can be removed from the model and trimmed using stones or fine cross-cut carbide burs.
5. If Stern Vantage Varnish LC has not been used, a dispersion layer will form on the outside of the tray. This can easily be removed with alcohol or acetone.

#### Light polymerization

Light unit	Kind of light/ Source of light	Time for polymerization	
*STERNTEK™ Light box	UVA/Luminous lamps	Top side	5 min
		Underside	3 min
*WOELM®-Light unit	UVA-VIS blended light/ Luminous lamps	Top side	5 min
		Underside	3 min
*KULZER® XS	UVA-VIS-blended light/ Stroboscope	Top side	2 min
		Underside	2 min
*DENTSPLY® Triad®	Halogen lamp	Top side	1 min
		Underside	1 min

#### Physical Properties

Transverse strength 80 MPa  
Transverse modulus 6000 MPa

#### Composition

Glass filler, UDMA, vinyl ester resin, pyrogenic silica, TEDMA, additives, catalyst, pigments

#### Storage And Shelf Life

The shelf life of the unopened package is 3 years if stored at room temperature. Cool storage below 50 °F (10 °C) extends the shelf life. Store the material away from direct sunlight or other heat sources in the dark. Do not use after expiry date.

#### Packaging

Stern Tek Custom Tray LC, 50 sheets, rose REF 222001  
Stern Tek Custom Tray LC, 50 sheets, blue REF 222002

**Caution:** Federal (USA) law prohibits this device to sale by or on the order of a dentist (or properly licensed practitioner).

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