FotoTec®SL.A



Dreve Otoplastik GmbH

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Technical Data Sheet

Product description: methacrylic material for stereolithography systems with

solid-state laser (Nd:YVO₄) for ITE-earmoulds

Manufacturer: Dreve Otoplastik GmbH

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Composition:

Pos	chemical term
1	alkoxilated bisphenol-A-dimethacrylates
2	urethane dimethacrylate
3	butanediole dimethacrylate
4	initiators
5	inhibitors
6	dye
7	pigments

Quantity: 1000 g, 5000 g Colour: beige opaque 1

(corresponds to released sample in the house)

Properties:

density: 1.1 - 1.2 g/mlviscosity: 0.6 - 1.0 Pa s

green flex modulus: elastic modulus: 800 – 1200 MPa (without post curing) flexual strength: 50 – 90 MPa

elongation at break: 14 – 20 %

impact-strength: 20 – 30 kJ/m² (Charpy unnotched)

post cured material: elastic modulus: 2100 – 2500MPa (10 minutes FotoTec® PCU in a protective gas atmosphere) elongation at break: 7 – 9 %

impact-strength: $\sim 10 - 17 \text{ kJ/m}^2$ (Charpy unnotched)

hardness: 80 – 84 Shore D

penetration depth: D_P : 102 µm (4.0 mils) critical exposure: E_C : 15.0 mJ/cm²

These data were found out using Dreve styles for the Viper Si² system. The above mentioned mechanic characteristics depend on the used build styles and build parameters of the Viper Si² system, the cleaning and drying of the shells and the characteristics of the used post-curing unit. Variations in the manufacturing process may lead to modified mechanic characteristics and colour variations.

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