

STRUCTOMER MODEL-X



PN 11012 V-02

High Throughput Clear Aligner Production

Structomer[®] Model-X (Rev B) is an ultra-fast 3D printing material formulated specifically for the high speed printing of clear aligner models. The material allows users to increase their daily production volumes by significantly reducing printing time by nearly 55% compared to comparable products in the market, saving time and cost.



55%
REDUCED PRINT TIME*

Speed Comparison

PROPERTY	Structomer® Model-X	Structomer® Model	Competitor
Horizontal printing (Approx. 150 layers / 15 mm)	20 mins	45 mins	~40 mins*
Print speed in "z" direction	41 mm/hr (0.68 mm/min)	20 mm/hr (0.33 mm/min)	23 mm/hr (0.38 mm/min)
Total aligner arches/time (Printer dependent)	9 arches / 20 mins	9 arches / 45 mins	6 arches / 40 mins*

^ All provided data is preliminary from measurements conducted by Structo Pte. Ltd.
*As advertised.

Technical Specifications

Mechanical Property

Tensile Modulus - ISO 178:2010

Tensile Strength - ISO 178:2010

Elongation To Failure - ISO 178:2010

Flexural Modulus - ISO 527-1:1996

Flexural Strength - ISO 527-1:1996

Elongation To Failure - ISO 527-1:1996

Metric

426- 926 MPa

30 - 44 MPa

4 - 11 %

753- 1289 MPa


35 - 51 MPa

15 - 61 %

^ All provided data is preliminary from measurements conducted by Structo Pte. Ltd.

DENTISTRY DESERVES BETTER 3D PRINTING

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