





Hybrid PhotoSynthesis™ (HPS) and TruLayer™

Eliminate all tradeoffs between throughput, accuracy, feature resolution and surface finish.

The Lumia X1 is a Hi-Speed SLA system that encompasses patented Hybrid PhotoSynthesis (HPS) and TruLayer Technology.

HPS technology uses multiple energy sources to simultaneously image both expansive flat areas and intricate details. Meanwhile, TruLayer Technology facilitates rapid detachment of the active print layer, seamlessly transitioning to the next layer.

With the Lumia X1, traditional tradeoffs among accuracy, surface finish, throughput, and print reliability are now obsolete and accomplished within a single print. Standard waiting periods between layers are eradicated, freeing the process from limitations on the size and bulk of printed cross-sections. Achieving diverse geometries is now possible with 2X-20X higher throughput compared to current technologies.

KeyModel Ultra™ - Light Grey & Ivory

Applications

ental and orthodontic models

Tech-Specs

Ultimate Tensile Strength: >50 MPa Tensile Modulus: 1700 MPa Elongation at Break: 5%

- Ultra-fast printing
- Integrated thermoforming quick-release agent
- Flawless detail
- Carve-able without chipping
- Impressive surface detail





KeyOrtho Model®

Applications

Rapid production of orthodontic models

Tech-Specs

Ultimate Tensile Strength: 51 MPa Tensile Modulus: 1850 MPa Elongation at Break: 5.6%

Features

- Accurate
- Low shrinkage
- High-speed
- Withstands thermoforming temperatures





KeyGuide®

Applications

Surgical guides

Tech-Specs

Ultimate Flexural Strength: 106 MPa Flexural Modulus: 2400 MPa Elongation at Break: 6,3%

Features

- Biocompatible capable per ISO10993-5 and ISO10993-10
- Autoclave sterilizable
 High strength and stiffness for withstanding
- typical forces duringuse Exceptional accuracy ensuring consistent fit of the guide and sleeves





DATASHEET

KeySplint Hard® Clear

Applications

Rigid orthodontic and dental devices. Bite planes, flexible nightguards, splints, repositioners and retainers. Post-trauma tooth immobilization

Tech-Specs

Ultimate Flexural Strength: 100 MPa Flexural Modulus: 2300 MPa Elongation at Break: 9,0% Shore Hardness: 89 D

Features

- Biocompatible capable per ISO10993-1
 United States FDA 510k-Cleared
 CE Marked (Class IIA)

- Unmatched Strength
- Stain resistant
- Highly abrasion-resistantEasy to polish

KeySplint Soft® Clear

Applications

Orthodontic and dental appliances Bite planes, mouthguards, Nightguards, splints and repositioners

Tech-Specs

Ultimate Flexural Strength: 45 MPa Flexural Modulus: 1200 MPa Ultimate Tensile Strength: 52 MPa Tensile Modulus: 1790 MPa Elongation at Break: >110% Shore Hardness: 80-85 D

Features

- Biocompatible capable per ISO10993-5 and ISO10993-10
- Enhanced patient comfort
- Not brittle
- Fracture and abrasion resistant
- FlexibleHighly abrasion-resistant
- Transparent



NextDent Denture Base

Applications

Full removable dentures Partial removable dentures

Tech-Specs

Fracture Work: > 2000 J/m² Stress Intensity Factor: >= 1.5 N/mm Charpy Impact: >= 8.0 kJ/m² Water Sorption: <= 32 ug/mm³ Water Solubility: <= 8 ug/mm³

Features

- Biocompatible capable per ISO10993-1
- High break resistance
- Flexibility for partial dentures
- Accurate and repeatable printability

Printodent® GR-19.1 OA | MSI



Hard-elastic orthodontic splints with reduced biofilm adhesion

Tech-Specs

Ultimate Flexural Strength: 56 MPa Flexural Modulus: 1550 MPa Water Sorption: <= 32 ug/mm³ Water Solubility: <= 5 ug/mm³ Total Fracture Work: >= 250 MPa/m²

Features

- Reduced biofilm adhesion due to MSI® technology
- Hard flexible
- Highest wearing comfort due to thermo effect



Additional Product Information 888-315-5103, or sales@axtra3d.com

