





# 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**

Dental and orthodontic models

#### **Tech-Specs**

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

#### Features

- 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

# **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 StrengthStain 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
- Flexible
- Highly abrasion-resistant
- Transparent

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





#### **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

- 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

