AXTRA3D

MATERIAL GUIDE

2025

Introduction to Lumia X1

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-8X higher throughput compared to current technologies.

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www.axtra3d.com | info@axtra3d.com | +01 (888).315.5103
Axtra3D, Inc. USA HQ | 5510 77 Center Drive, Suite 150, Charlotte, NC, 28217
Axtra3D, Inc. EU | Corso Santi Felice e Fortunato, 25, 36100 Vicenza

Industrial Resin

3D Systems

Figure 4® PRO-BLK 10

Offers tool-less, same-day production for various applications. Fast print speed and exceptional throughput. High precision resin producing parts with a smooth surface finish and sidewall quality. It has excellent mechanical properties and long-term environmental stability.

Features

- Improved environmental stability of mechanical and performance properties over time
- Fast throughput for part-in-hand with no secondary thermal cure required
- Simple, single solvent cleaning
- Excellent surface quality and repeatability
- Accurate, low distortion material for fast first article print success

Applications

- Motor housings
- Connectors
- Snap-fits
- Automotive interior components

Ultimate Tensile Strength
63 MPa

Solid Part Density
1.16 g/cc

Tensile Modulus
2320 MPa

Elongation at Break
12 %

Unnotched Izod Impact Strength
614 J/m

Shore Hardness
79 D

Technical Data Sheet

Safety Data Sheet

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