

UniFuse™ IN625 60um 400W Propulsion Exhaust Manifold (As-Printed)

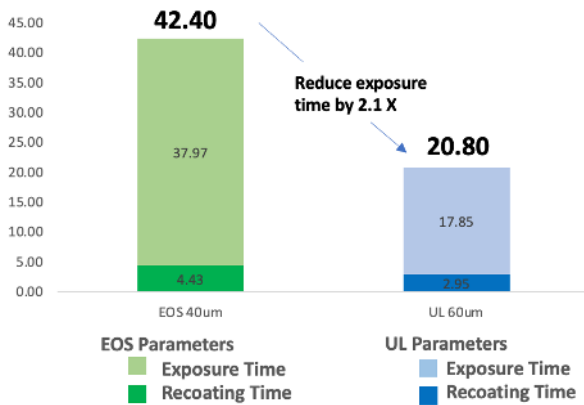
Uniformity Labs powder and scanning provide more repeatable and reproducible mechanical properties across the build bed.

UniFuse™ IN625 ultra-low porosity powder and High Performance Scanning, in this example of production printing, **achieves a 2.1X faster exposure time** when compared to competitors' lower layer thickness scan strategies targeting best-in-class mechanical properties. This throughput improvement is typical for UniFuse™ IN625 builds.

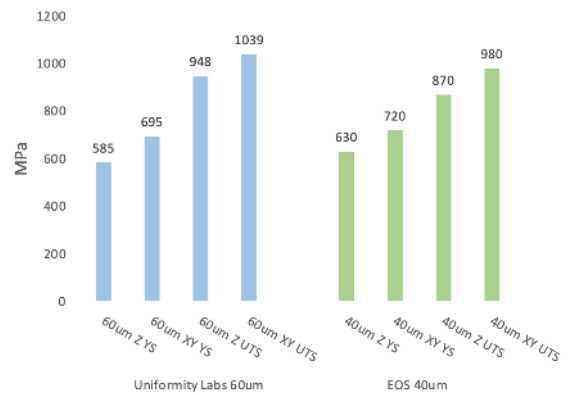
UniFuse™ IN625 60um 400W mechanical properties are **comparable** or **superior** in UTS, YS, Elongation, and density compared to competitors' lower layer thickness parameter sets.

Layer thickness: UL 60um, EOS 40um
Parts per build: 16
Laser Power: 400W

Single Layer Platform Build Times (Hours)



Comparable Mechanical Performance



Vertical Surface Roughness Ra (Microns)

Uniformity 60um	7.3 – 9.7 um
EOS 40um	N/A

Elongation	Vertical	Horiz.
Uniformity 60um	47%	40%
EOS 40um	48%	33%

Density	g/cm ³	%
Uniformity 60um	8.4	99.98
EOS 40um	8.4	N/A

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