

3DDC - DMP Flex 350



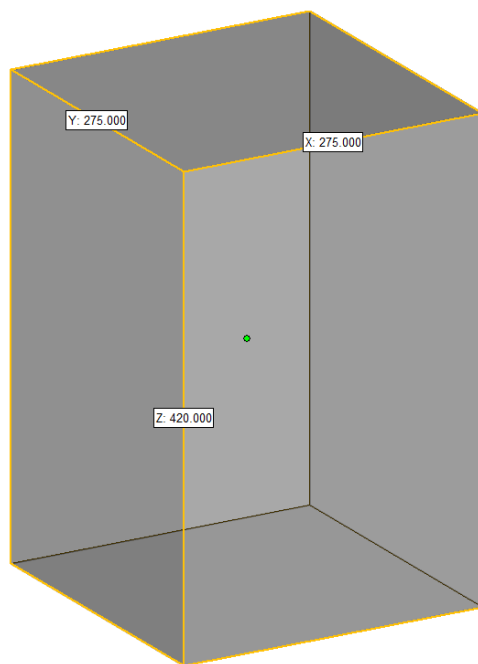
Key Features:

- Purest atmosphere during printing, consistently low oxygen environment (<25ppm)
- Variable layer thickness - increasing fine details and productivity.
- Excellent microstructure, very high density
- Repeatable, stable mechanical properties
- Consistent accuracy - machine to machine
- Thoroughly developed and tested print settings.
- Large build volume: 275x275x420mm:

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LaserForm[®] Ti Gr5 (A)

Mechanical Properties^{1,2,5}

| MEASUREMENT | CONDITION | METRIC | | U.S. | |
|---|-----------|---------------------|-----------|---------------------|-------------|
| | | AFTER STRESS RELIEF | AFTER HIP | AFTER STRESS RELIEF | AFTER HIP |
| Youngs modulus (GPa ksi) ⁴ | | 105-120 | 105-120 | 15000-17500 | 15000-17500 |
| Ultimate Strength (MPa ksi) | ASTM E8M | | | | |
| Horizontal direction — XY | | 1180 ± 30 | 1000 ± 30 | 171 ± 5 | 145 ± 5 |
| Vertical direction — Z | | 1160 ± 50 | 1020 ± 50 | 168 ± 8 | 148 ± 8 |
| Yield strength Rp0.2% (MPa ksi) | ASTM E8M | | | | |
| Horizontal direction — XY | | 1090 ± 30 | 910 ± 20 | 158 ± 4 | 132 ± 1 |
| Vertical direction — Z | | 1080 ± 50 | 930 ± 20 | 157 ± 4 | 134 ± 1 |
| Elongation at break (%) | ASTM E8M | | | | |
| Horizontal direction — XY | | 9 ± 2 | 15 ± 3 | 9 ± 2 | 15 ± 3 |
| Vertical direction — Z | | 9 ± 2 | 14 ± 3 | 9 ± 2 | 14 ± 3 |
| Hardness, Rockwell B | | 40 ± 2 | 36 ± 2 | 40 ± 2 | 36 ± 2 |
| Impact toughness (J/cm ² lb.ft) ³ | ASTM E23 | min 20 | 20 ± 2 | min 15 | 15 ± 2 |

Registered in England
Company No. 6269242
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www.3ddc.eu