

Stainless Steel

P r o d u c t D e m o n s t r a t i o n



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Material Overview

Stainless steel is a good metal material for functional parts and spare parts. The parts printed are easy to maintain as it attracts little dirt and the presence of chrome gives it the added benefit of never rusting.

Advantages

- High strength and high temperature oxidation resistance
- Excellent corrosion resistance
- Good welding performance

Ideal Applications

- Automotive
- Aerospace
- Mold
- Medical

Post Process

- Polish
- Sandblast
- Electroplate

Technical Datasheet

| General physical properties (polymer material) / part density (g/cm³, metal material) | |
|--|------------------------|
| Part density | 7.90 g/cm ³ |
| Thermal properties (polymer materials) / printed state properties (XY direction, metal materials) | |
| tensile strength | ≥650 MPa |
| Yield Strength | ≥550 MPa |
| Elongation after break | ≥35% |
| Vickers hardness (HV5/15) | ≥205 |
| Mechanical properties (polymer materials) / heat-treated properties (XY direction, metal materials) | |
| tensile strength | ≥600 MPa |
| Yield Strength | ≥400 MPa |
| Elongation after break | ≥40% |
| Vickers hardness (HV5/15) | ≥180 |

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