

Alloy 910 Specifications

taulman3D
High Strength Materials



Technical Data Sheet (TDS): Alloy 910

Alloy 910 from taulman3D		contact@taulman3d.com
HS Code	3916.9	
Printing Temperature	250-255C	
Melting Temperature	210C	
Tg Glass Transition	82C	
Pyrolysis – Thermal Degradation	349C	
Non-Destructive Evaluation	Yes	
Print Bed Temperature	30-65C	
Optimal Bed Surface	Garolite	
Shrinkage (in)	0.0033	
Tensile Strength (PSI)	8,100	
Ultimate Elongation when 3D Printed	32%	
Modulus PSI when 3D Printed	72,932	
Opacity	70%	
Colors	Natural and Black	
UL 94 HB	Yes	
UL 94 V2 at 1.5mm thickness	Yes	
FDA Direct Food Contact	Yes	
FDA Direct Drink Contact	Yes	
Use of Taps for Threads	Excellent	
CNC Finish Tooling	Carbide	
CNC Coolant	Forced Air Only	
Use in 3D Forging	Excellent	
Printed Prothesis	Excellent	
Nominal Diameters	1.75mm and 2.85mm (3mm)	

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Alloy 910 is a significant development from taulman3D. The goal was to provide a material with very high tensile and sufficient elongation to maintain a high degree of durability. Alloy 910, when 3D Printed comes in at 8,100 PSI tensile and close to 12,000PSI when injection molded.

It has become a trusted additive material for top aerospace and automotive companies globally.

With a combined tensile strength higher than the strongest co-polyesters, the durability of nylons, a shrinkage factor that rivals our t-glase, a vast range of chemical resistance and a 82C working range, you now have one solution easily printable at 250C-255C.

A few use cases:

Chemical resistant equipment covers.

Any industrial parts that are currently being made of other high tensile polymers.

Large motor mounting.

Industrial vibration isolators and damping parts.

High pressure sand blasting resistant.

Sand blast masking.

Electroplating supports and hangers.

Chemical dip and tank supports.

High end gears and cam.