taulman **Alloy 910** is the combined effort of chemical companies, extrusion manufactures and taulman3D to specifically develop a single material to meet as many high performance 3D Printing needs as possible. 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. Uses such as direct mounting to auto motors or diesel motors for ports.

	www.taulman3d.com	
	Specification	**Alloy 910**
Notes:	**Technical**	
1	Manufacture Part ID	tauA1/tauA3
	HS Code	3916.9
	Thermal	
2	Printing Temperature	250C-255C
	Melting Temperature	210C
3	Tg Glass transition	82C
4	Pyrolysis - Thermal degradation	349C
	Non-Destructive Evaluation	Yes
5	Print-Bed Temp	30-65C
6	Ambient Temp (Enclosure)	30 - 100C
	Physical	
	Nominal Diameter (3mm Maximum Dia)	1.75mm/2.85mm
	Weight /spool	1 lb
	Nominal Length/spool (In Feet)	490/180
7	Shrinkage - in/in	0.0033
8	Solvent/Glue	ComPlete
9	**Mechanical**	
	Tensile Stress "PSI" when 3D Printed	8,100
	Ultimate Elongation when 3D Printed	32%
	Modulus "PSI" when 3D Printed	72,932
	Optical	
	Opacity	70%
	Reflectivity	N/A
10	Color	Natural
	Approvals	
	FDA - Direct Food Contact	Yes
	FDA Direct Drink Contact	Yes
	UL Flammability	
	UL 94 HB	Yes
	UL 94 V2 at 1.5 mm thickness	Yes
	Features:	
	Surface texture	Very good
11	Living Hinge	N/A
	Use of Taps for threads	Excellent
	CNC finish tooling	Carbide
12	CNC Coolant	Forced Air Only
	Use in 3D Forging	Excellent
	Printed Prosthesis	Excellent
	Robotic Assemblies	Excellent
	Jewelry Printing	N/A
	Fumes	None
	Lenticulated overlays.	N/A
	Dye type	Acid Based
	Dye Uptake (Saturation)	Very good
	Specifications are subject to change.	