

# Nylon 680

1	Manufacture Part ID	t6801/t6803
	HS Code	3916.9
	<b>Thermal</b>	
2	Printing Temperature	250C-255C
	Melting Temperature	210C
3	Tg Glass transition	93C
4	Pyrolysis - Thermal degradation	351C
	Non-Destructive Evaluation	Yes
5	Print-Bed Temp	30-65C
6	Ambient Temp (Enclosure)	30 - 100C
	<b>Physical</b>	
	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	<b>Mechanical</b>	
	Tensile Stress "PSI" when 3D Printed	6,900
	Ultimate Elongation when 3D Printed	34%
	Modulus "PSI" when 3D Printed	N/A
	<b>Optical</b>	
	Opacity	70%
	Reflectivity	N/A
10	Color	Natural
	<b>Approvals</b>	
	FDA - Direct Food Contact	Yes
	FDA Direct Drink Contact	Yes
	<b>UL Flammability</b>	
	UL 94 HB	Yes
	UL 94 V2 at 1.5 mm thickness	Yes
	<b>Features:</b>	
	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.	