

Technical Data Sheet (TDS): Nylon 645

Nylon 645 from taulman3D

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HS Code	3916.9
Printing Temperature	250-255C
Melting Temperature	217C
Tg Glass Transition	52C
Pyrolysis – Thermal Degradation	340C
Non-Destructive Evaluation	Yes
Print Bed Temperature	30-65C
Optimal Bed Surface	Garolite
Shrinkage (in)	0.0062
Tensile Strength (PSI)	5,188
Ultimate Elongation when 3D Printed	186%
Modulus PSI when 3D Printed	30.845
Opacity	45%
Colors	Natural and Black
UL 94 HB	Yes
UL 94 V2 at 1.5mm thickness	Yes
Surface Texture	Very Good
Living Hinge	Very Good
Use of Taps for Threads	Excellent
CNC Finish Tooling	Any
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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High Strength Materials

