TRAK® MACHINE TOOLS
SOUTHWESTERN INDUSTRIES, INC.

Technical Data Sheet
Shop at BuyTRAKParts.com

PA 645-B

Bridge Nylon

Bridge Nylon started with a strong base polymer used for a percentage of PA 645, and was enhanced in order to get better characteristics.

Mechanical Properties	Standard	Value	Unit
Ultimate Tensile Strength		33	MPa
Tensile Modulus			MPa
Elongation at Break		248	%
Flexural Strength			MPa
Flexural Modulus			MPa
Hardness Shore	**Standard**	**Value**	**Unit**
Hardness			

Thermal Properties	Standard	Value	Unit
HDT @ 0.45 MPa			°C
Glass Transition Temp		52	°C
Physical Properties	**Standard**	**Value**	**Unit**
Density			g/cm^3
Certifications and Tests	**Standard**	**Value**	**Unit**
Flammability (UL 94)	@ 1.5mm	V-2	
USP Class VI Certified			

Characteristics

- Better adherence to the Printing Platform compared to PA 645
- Reduced water up-take compared to PA 645
- Reduced Shrinkage compared to PA 645
- Non-destructive evaluation compared to PA 645

Applications

- Surface Texture
- Living Hinge
- Use of taps and threads
- CNC finish tooling
- 3D forging
- Printed prosthesis
- Robotic assemblies
- Dye uptake

Considerations

Printing Skill & Experience: ☐ Beginner ☐ Intermediate ☒ Advanced ☐ Expert

- Requires little or no drying in winter. Needs warming up in summer.

Printer Compatibility

☐ 3ntr A2v4	☐ 3ntr A4v4	☒ EVO-T	☒ EVO22-T

Available colors from Airwolf 3D: Black, Natural