TRAK® MACHINE TOOLS
SOUTHWESTERN INDUSTRIES, INC.

Technical Data Sheet
Shop at BuyTRAKParts.com

TECH-G (PetG)

Glycol modified Polyethylene terephthalate - high strength

TECH-G was specifically developed to have high strength and limited elongation. It is perfect for the development and design industry to easily 3D print parts that offer a higher tensile strength with enough elongation so as to be truly useful in functional testing.

Mechanical Properties	Standard	Value	Unit
Ultimate Tensile Strength		40.67	MPa
Tensile Modulus			MPa
Elongation at Break		3	%
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		77	°C
Physical Properties	**Standard**	**Value**	**Unit**
Minimum Part Density			g/cm^3
Certifications and Tests	**Standard**	**Value**	**Unit**
Flammability (UL 94)			
USP Class VI Certified			

Characteristics

- Superior durability
- High strength with limited elongation
- Good wear resistance
- Low warp and shrink
- Works with breakaway and soluble support
- Non-toxic
- Low melting point, compatible with many support materials
- Easy to print
- FDA Compliant*

Applications

- Design and architectural use
- Functional prototypes and testing
- Precision go-no-go gauges, fixtures and stops
- "Soft jaw" holding
- Jigs & Fixtures
- Robotic assemblies
- Prosthetics
- Living Hinges

Considerations

- Not suitable for high temperature applications
- Poor elongation, brittle.
- Stringing can occur once material absorbs moisture.

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

- Needs to be protected from moisture during printing. It is recommended to use an MMS, polybox, or print dry to feed filament to the printer while printing.

Printer Compatibility

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

Available colors from TRAK: Black, Clear
Available colors from Plural AM: Black, Clear

*See Safety Data Sheet for more information on FDA Compliance.