



Key Properties:

- Maximum working temperature 200°F (93°C)
- Excellent optical clarity
- Exceptional flexibility
- Low moisture absorption
- Superior solvent resistance
- Low permeability to fuels and other chemicals
- Chemically resistant to many common solvents
- Low levels of metallic and organic extractables
- High limiting oxygen index: Does not support Combustion

Special Packaging Options:

- Pre-cut coiled lengths
- Double poly bagged
- End capped
- Clean room packaged
- Private Labeled

THV Tubing*		
PHYSICAL PROPERTIES	TEST METHOD	THV
CONTINUOUS SERVICE TEMP RANGE	-	-40 TO 200°F
HARDNESS, SHORE D	ASTM D2240	44 - 54
TENSILE STRENGTH, AT BREAK	ASTM D638	2900 PSI
ELONGATION AT BREAK	ASTM D638	600%
FLEXURAL MODULUS	ASTM D790	12,000 PSI
IZOD IMPACT, NOTCHED	ASTM D256	NO BREAK

* **Please Note:** Test data results from THV 221GZ

THV Tubing - Standard Sizes						
ID (INCHES)	OD (INCHES)	WALL (INCHES)	50' COIL PART NUMBER	100' COIL PART NUMBER*	BEND RADIUS (INCHES)	BURST PRESSURE (PSI @ 72°F)
1/16	1/8	0.030	N/A	91550	0.250	1480
5/32	1/4	0.047	89599	89600	0.286	1100
1/8	1/4	0.062	90745	90748	0.200	1550
1/4	3/8	0.0625	89597	89594	0.286	1000
3/8	1/2	0.0625	89604	89609	0.600	775
5/8	3/4	0.0625	89605	89602	3.200	475
7/8	1	0.0625	72632	72633	6.000	375

* **Please Note:** Actual performance may vary. The properties and data on this sheet are provided as a general reference.

▶ Advancing Your Ideas

Your ideas have the potential to transform the world. The right partners will help you make it happen. Talk to Zeus about how polymer science can advance your ideas. We welcome the opportunity to collaborate with you.



ADVANCED POLYMER SCIENCE FOR NEW TECHNOLOGIES



Ideal for critical fluid delivery applications, THV tubing has exceptional flexibility, clarity, and dimensional stability.

Featured Polymer: **THV** Tubing

THV is a Terpolymer composed of the monomers TFE, HFP, and VF2. Zeus THV tubing has excellent optical clarity, low moisture absorption, and solvent resistance. Combining the properties of THV along with Zeus' specialized manufacturing processes, results in a tube with superior properties. These properties are characterized by a dimensionally stable product that is defect free with superior flexibility.

Clarity, flexibility, and chemical resistance are some of the characteristics that make this material an excellent choice for critical fluid delivery applications. In addition to the semiconductor market, THV is also used in biotech, ozone, chemical processing, and automotive industries.

Capitalizing on more than 40 years of polymer experience, Zeus continues to provide superior products with the highest standards of quality and control. Zeus is capable of producing standard tubing sizes ranging from 1/8" to 1" in diameter as well as custom sizes. Special packaging options are also available, such as pre-cut coiled lengths and clean room packaged.