

W-TPE™ BIOPHARMACEUTICAL TUBING TECHNICAL DATA

For decades, W-TPE™ tubing has been considered a standard material in biopharmaceutical processing. Our material is specifically formulated and tested to meet the rigorous demands of the Biopharm industry, and it is capable of handling a wide variety of applications including sensitive fluid transfer and peristaltic pumping.

- Extruded in an ISO Class 7 cleanroom environment
- Heat sealable, weldable, moldable
- Less permeable than silicone tubing
- BPA, Latex, Phthalate and animal free
- Tube sizes range from 0.063" ID to 1.5" ID
- Maintains flexibility from -50°F to 275°F
- Documented lot tracing, custom printing
- Custom packaging available

W-TPE™ TUBING PROPERTIES

| | |
|--|-------------------------|
| Appearance / Color | Translucent |
| Durometer Hardness (Shore A), ASTM D2240 | 65A |
| Tensile Strength (psi/Mpa), ASTM D412 | 1406 |
| Elongation (%), ASTM D412 | 792 |
| Tear Resistance, ppi (kN/m), ASTM D624 | 219 |
| Tensile Modulus, ASTM D412 | 388 (100%) / 609 (300%) |

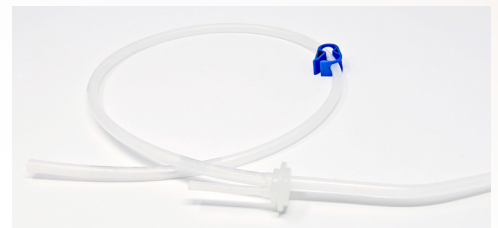
W-TPE™ TUBING BIOCOMPATIBILITY

| | | | |
|--------------|-------------|-------------|--------------|
| USP Class VI | USP 85 | USP 87 | USP 788 |
| ISO 10993-3 | ISO 10993-4 | ISO 10933-5 | ISO 10993-11 |

W-TPE™ TUBING APPLICATIONS

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|----------------------------|------------------------|
| Buffer / media prep | Bioprocess sampling |
| Aseptic liquid transfer | Peristaltic pumping |
| Cell culture | Single-use bioreactors |
| Catheter / IV applications | Vaccine production |

User is responsible for determining suitability and safety of all products for intended use. Data supplied by WHK BioSystems is intended to provide guidance in product selection but should be verified prior to use. WHK BioSystems disclaims all liability regarding a product's fitness for use.



W-TPE™ Tubing is manufactured by WHK BioSystems in the USA!