



**RIM Bio, Inc.**

**Single Use Bio-Process Containers**

## **Data Sheet**

### **NxFlex T-9001 Thermoplastic Elastomer (TPE) For use in Bio-Process applications**

NxFlex T-9001 is our alternative to C-Flex®. This is a Class VI and ISO 10993-4 material and meets FDA food grade requirements. T-9001 contains special additives to reduce sticking and abrasion of the ID and is recommended for use in peristaltic pumps. Listed below are additional characteristics:

- Ease of sterilization (ethylene oxide and gamma ray)
- Good chemical resistance
- Meets FDA food grade requirements
- Translucent
- Durometer range  $65 \pm 5$
- Suitable for use up to 150° F
- Material will provide resistance to creeping at temperatures up to 275° F (135° C)

T-9001 has all the desirable mechanical properties characteristic of thermoplastic rubbers. This extrusion grade material can be tightly controlled for dimensional stability and cleanliness.

Compatibility for Food and Medical Use – this product meets the requirements of the FDA’s Title 21 Section 177.1810 for food grade use and has passed Class VI, USP 87, USP 661 and Hemolysis testing. However, customers are responsible for performing any required biocompatibility testing.

#### **Typical Physical Properties – (ASTM D-412)**

<b>Compound</b>	<b>Tensile @ Break</b>	<b>Elongation</b>	<b>300% Modulus</b>	<b>500% Modulus</b>
<b>NxFlex T-9001</b>	<b>1600 min. psi</b>	<b>750 % min</b>	<b>450 avg. psi</b>	<b>800 avg. psi</b>

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