
	<b>4227</b>	<b>08</b>
<b>Title: PRODUCT STANDARD</b>	Document Number	Revision Page 1 of 5

**Product Standard for  
Synflex<sup>®</sup> Taste-Rite<sup>®</sup>  
4227  
Barrier Beverage Tube**

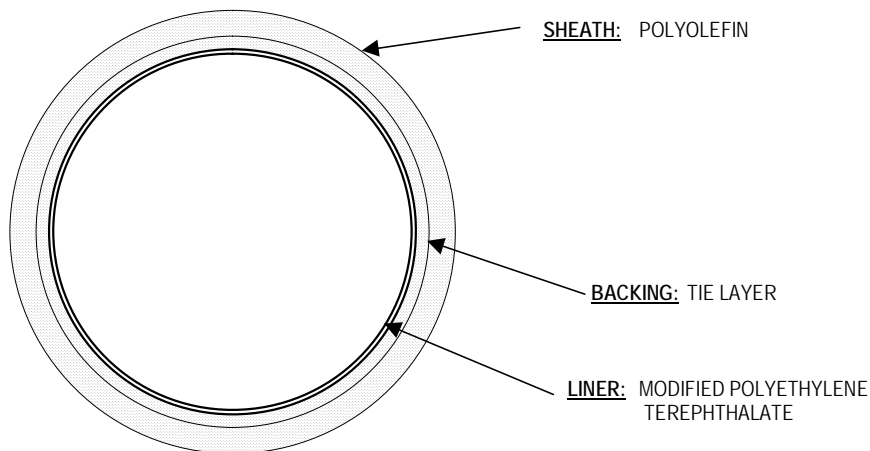
	<b>4227</b>	<b>08</b>
<b>Title: PRODUCT STANDARD</b>	Document Number	Revision Page 2 of 5


## 1.0 SCOPE

This standard covers a NSF listed, general purpose, Barrier Beverage Tube. This hose conforms with FDA and NSF regulations and was designed to operate in temperatures ranging from -10°F to +150°F.

## 2.0 CONSTRUCTION

The tube is a multiple layer extrusion consisting of a FDA approved, NSF listed, 100% virgin modified polyethylene terephthalate, tie layer, and a polyolefin backing layer. The tube is smooth, seamless and semi-transparent or opaque in its final state when colored. This multi layer tube contains a seamless "Taste Barrier" that seals out undesirable odors and insures no tainting of the beverage being conveyed.



	<b>4227</b>	<b>08</b>
<b>Title: PRODUCT STANDARD</b>	Document Number	Revision Page 3 of 5

### 3.0 PRODUCT IDENTIFICATION

The product is identified by marking that appears longitudinally on the cover of the product. The standard ink color is black. The text of the standard hose is marked as shown in the following example:

SYNFLEX® TASTE-RITE® 4227-xxxx PET BARRIER TUBE NSF-51 MAX TEMP. 150°F  
NSF-61 SK394-001 EATON (LOT #)

Note: 1. The NSF standard deals with a temperature range of 45°F. to less than 150°F.

In addition to the marking text the product is lot numbered for manufacturing traceability.


### 4.0 DIMENSIONS AND PRESSURES

**Table 1**

PRODUCT PART NO.	I.D. INCHES (NOM.)	O.D. INCHES (NOM.)	WALL THICKNESS	APPROX. WEIGHT PER 100 FEET
4227-06	.265	.375	.055 Ref.	2.3 lbs.
4227-07	.313	.438	.062 Ref.	3.0 lbs.
4227-08	.375	.500	.062 Ref.	3.6 lbs.
4227-10	.500	.625	.062 Ref.	4.5 lbs.

**Table 2**

PRODUCT PART NO.	MIN. BEND RADIUS AT 75°F	MIN. BURST PRESSURE AT 75°F	CHANGE IN LENGTH AT 150 PSI
4227-06	1.70"	600 psi	+/- 2%
4227-07	1.90"	550 psi	+/- 2%
4227-08	2.13"	500 psi	+/- 2%
4227-10	3.25"	350 psi	+/- 2%

	<b>4227</b>	<b>08</b>
<b>Title: PRODUCT STANDARD</b>	Document Number	Revision Page 4 of 5

## 5.0 QUALIFICATION TESTS

To meet the qualification requirements for this tube standard, the tube that was made using this standard shall conform to the following tests and requirements.

### 5.1 **Dimensional Test and Visual Examination:**

All tube shall conform to the dimensions detailed in Table 1 of this standard and all tube shall be visually examined per the latest issue of SAE J343.

### 5.2 **Change in Length Test:**

The change in length shall not exceed  $\pm 2\%$  when tested at working pressure per the latest issue of SAE J517.

### 5.3 **Burst Test:**

This test shall be conducted in accordance to the latest issue of SAE J343. The minimum burst pressure is listed in Table 2.

### 5.4 **Taste Test:**

This test shall be conducted in accordance to the latest issue of Synflex®, Aurora Test Procedures WIQ-030.

### 5.5 **Taste Migration Test:**

This test shall be conducted in accordance to the latest issue of Synflex®, Aurora Test Procedure WIQ-032.

### 5.6 **Flushability Test:**

This test shall be conducted in accordance to the latest issue of Synflex® Test Procedures TP-220 and SGPPL Akron lab GC Test Lab Method 10-2-4


### 5.7 **Phenol Migration Test:**

This Test shall be conducted in accordance to the latest issue of SGPPL Akron Test Lab method 10-1.9

## 6.0 INSPECTION TESTS

The following tests are to be performed on samples representing each production lot of tube. A production lot is defined as one shifts' production (8-12 hrs). Requirements shall be the same as the corresponding qualification tests:

1. Dimensional Test and Visual Examination per SAE J343.
2. Burst Test per SAE J343 or ASTM D1599.
3. Taste Test WIQ-030.

	<p style="text-align: center;"><b>4227</b></p>	<p style="text-align: center;">08</p>
<p><b>Title: PRODUCT STANDARD</b></p>	<p>Document Number</p>	<p>Revision Page 5 of 5</p>

4. Bond Test (PLI) to minimum set in Product Specification per WIQ-029.

## 7.0 ADDITIONAL INFORMATION

## 8.0 TUBE ASSEMBLY INFORMATION

Eaton does NOT supply or manufacture couplings for use with 4227 Series beverage tube.