

Polyolefin Tube

Characteristics

- Adopting a polyolefin type resin suitable for clean environment.
- Polyolefin tube(CTA) is suitable for application requiring sufficient flow rate, and Soft Polyolefin tube (CTB) is for flexible piping.
- 6 colors with 8 sizes (including Inch size) are available.
- Clean-room package is available.

Specifications

| Tube type | | CTA | | | | | | | | CTB | | | | | | | |
|-------------------------------|-------------------|--------------------------------------|-------|----------------|------|--------|------|-----------|-----------|----------------------|-------|----------------|------|--------|------|-----------|-----------|
| Size | Code | 0425 [5/32] | 0640 | 0860 [5/16] | 1075 | 1290 | 1/4 | 3/8 | 1/2 | 0425 [5/32] | 0640 | 0850 [5/16] | 1065 | 1280 | 1/4 | 3/8 | 1/2 |
| | | O.D.xI.D. (mm) | 4x2.5 | 6x4 | 8x6 | 10x7.5 | 12x9 | 6.35x4.57 | 9.53x6.99 | 12.7x9.56 | 4x2.5 | 6x4 | 8x5 | 10x6.5 | 12x8 | 6.35x4.15 | 9.53x5.99 |
| | Tube length(m) | 20 · 100 | | | | | | | | | | | | | | | |
| Tube color | Black (B) | ○: available | | | | | | | | | | | | | | | |
| | Clear red (CR) | ○ | | | | | | | | | | | | | | | |
| | Clear yellow (CY) | ○ | | | | | | | | | | | | | | | |
| | Clear green (CG) | ○ | | | | | | | | | | | | | | | |
| | Clear blue (CB) | ○ | | | | | | | | | | | | | | | |
| | Clear white (CW) | ○ | | | | | | | | | | | | | | | |
| Fluid medium | | Air, water (*1~*4), chemicals (*5) | | | | | | | | | | | | | | | |
| Max. operating pressure | | 145psi (1.0MPa) (*6) | | | | | | | | 116psi (0.8MPa) (*6) | | | | | | | |
| Max. vacuum | | -29.5in. Hg (-100kPa) | | | | | | | | | | | | | | | |
| Operating temp. range | | 5 ~ 176°F (-15 ~ 80°C) (no freezing) | | | | | | | | | | | | | | | |
| Min. bending Radius (JIS)(mm) | | 7 | 12 | 23 | 27 | 33 | 15 | 27 | 33 | 7 | 12 | 18 | 20 | 12 | 18 | 22 | |

*1. Surge pressure must be controlled lower than max. operating pressure when using water or liquid as a fluid medium.
 *2. Tap water can be used. Consult with PISCO for using other kind of water.
 *3. Be sure to place Insert Ring into the tube edge when Tube is inserted into Push-In Fittings with water or liquid as a fluid medium.
 *4. Although water may discolor the tube, the tube performance will not be affected.
 *5. Contact us when chemicals are used as a fluid medium.
 *6. The value of max. operating pressure is measured at 20°C and 65%RH. When Tubes are used in different conditions, consider a safety ratio of the pressure with an enough margin, referring to Burst Pressure Curve.

Model Designation (Example)



(1) Tube type

CTA: Polyolefin Tube
CTB: Soft Polyolefin Tube

(2) Tube dia. (O.D./I.D.)

■ Polyolefin Tube (CTA)

| Code | mm size | | | | inch size | | | |
|------|-------------------|-----------------|-----------------|-------------------|------------------|--------------------|--------------------|--------------------|
| | 0425[5/32] | 0640 | 0860[5/16] | 1075 | 1290 | 1/4 | 3/8 | 1/2 |
| | O.D. | ø4mm (ø0.16in.) | ø6mm (ø0.24in.) | ø8mm (ø0.31in.) | ø10mm (ø0.39in.) | ø12mm (ø0.47in.) | ø6.35mm (ø0.25in.) | ø9.53mm (ø0.38in.) |
| I.D. | ø2.5mm (ø0.10in.) | ø4mm (ø0.16in.) | ø6mm (ø0.24in.) | ø7.5mm (ø0.30in.) | ø9mm (ø0.35in.) | ø4.57mm (ø0.18in.) | ø6.99mm (ø0.28in.) | ø9.56mm (ø0.38in.) |

■ Soft Polyolefin Tube (CTB)

| Code | mm size | | | | inch size | | | |
|------|-------------------|-----------------|-----------------|-------------------|------------------|--------------------|--------------------|--------------------|
| | 0425[5/32] | 0640 | 0860[5/16] | 1065 | 1280 | 1/4 | 3/8 | 1/2 |
| | O.D. | ø4mm (ø0.16in.) | ø6mm (ø0.24in.) | ø8mm (ø0.31in.) | ø10mm (ø0.39in.) | ø12mm (ø0.47in.) | ø6.35mm (ø0.25in.) | ø9.53mm (ø0.38in.) |
| I.D. | ø2.5mm (ø0.10in.) | ø4mm (ø0.16in.) | ø5mm (ø0.20in.) | ø6.5mm (ø0.26in.) | ø8mm (ø0.31in.) | ø4.15mm (ø0.16in.) | ø5.99mm (ø0.24in.) | ø8.5mm (ø0.33in.) |

(3) Tube length

| Code | 20 | 100 |
|--------|---------------|---------------|
| Length | 20m (65.6ft.) | 100m (328ft.) |

* Clean-room package is available only in 20m length.

(4) Tube color

W: Transparent only

| Code | B | CR | CY | CG | CB | CW |
|-------|-------|-----------|--------------|-------------|------------|-------------|
| Color | Black | Clear red | Clear yellow | Clear green | Clear blue | Clear white |

* The fluid medium inside the tube could be hardly observed when using clear red color tube with smaller dia.

(5) Packaging option

| Code | No code | -C |
|---------------|----------|-----------------|
| Specification | Standard | Clean-room pkg. |

* Clean-room package is available only in 20m length.

Detailed Safety Instructions

Before using the PISCO products, be sure to read the "Safety Instructions", "Common Safety Instructions for Products in This Catalog" on page 13 to 16 and "Common Safety Instructions for Tubes" on page 66.



The products listed in this page are ECO-friendly products.
 * Please refer to page 4 for the details of ECO-friendly products.

| CTA Polyolefin Tube | Model code |
|---------------------|--------------------|
| | CTA0425-[3]-[4][5] |
| | CTA0640-[3]-[4][5] |
| | CTA0860-[3]-[4][5] |
| | CTA1075-[3]-[4][5] |
| | CTA1290-[3]-[4][5] |
| | CTA1/4-[3]-[4][5] |
| | CTA3/8-[3]-[4][5] |
| | CTA1/2-[3]-[4][5] |

| CTB Soft Polyolefin Tube | Model code |
|--------------------------|--------------------|
| | CTB0425-[3]-[4][5] |
| | CTB0640-[3]-[4][5] |
| | CTB0850-[3]-[4][5] |
| | CTB1065-[3]-[4][5] |
| | CTB1280-[3]-[4][5] |
| | CTB1/4-[3]-[4][5] |
| | CTB3/8-[3]-[4][5] |
| | CTB1/2-[3]-[4][5] |



Caution

- * [3]: Replaced with Tube length.
- * [4]: Replaced with Tube color code.
- * [5]: Replaced with "-C" for Clean-room pkg
- * Tubes with desired length are available as make-to-order items. Contact Pisco sales office or sales representative for details.



Package specifications
 20M lengths /bag: Applicable to all types
 100M lengths/ box: All types with standard pkg.

Burst Pressure Curve (Reference Value)

