

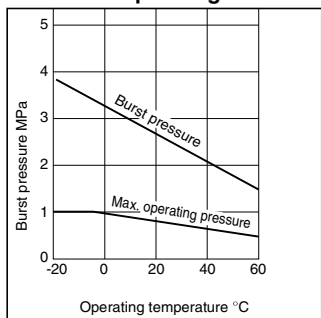
# Series 10-TFU Polyurethane Flat Tubing

RoHS

Compact piping possible



## Burst Pressure Characteristics Curve and Operating Pressure



## ⚠ Precautions

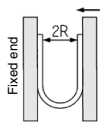
Be sure to read this before handling.  
Refer to page 1382 for Safety Instructions and pages 1237 to 1240 for Fittings and Tubing Precautions.

## ⚠ Caution

- Please consult with SMC regarding use with any fluids other than air.
- The value of the max. operating pressure is at a temperature of 20°C. Refer to the burst pressure characteristics curve for other temperatures. Furthermore, abnormal temperature rises caused by adiabatic compression may result in the burst of the tube.
- The value of the minimum bending radius is measured at the temperature of 20°C as shown in the figure on the right.
- As a result of product design characteristics, there are cases of very slight leakage.

## Specifications

| Model                          | 10-TFU<br>0425B-2   | 10-TFU<br>0425B-3 | 10-TFU<br>0604B-2 | 10-TFU<br>0604B-3 | 10-TCU<br>0805B-2 | 10-TCU<br>0805B-3 |
|--------------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| Number of cores                | 2   | 3                 | 2                 | 3                 | 2                 | 3                 |
| Tubing O.D. (mm)               | 4   |                   | 6                 |                   | 8                 |                   |
| Tubing I.D. (mm)               | 2.5   |                   | 4                 |                   | 5                 |                   |
| Fluid                          | Air   |                   |                   |                   |                   |                   |
| Max. operating pressure (20°C) | 0.8 MPa   |                   |                   |                   |                   |                   |
| Burst pressure                 | Refer to the burst pressure characteristics curve.                              |                   |                   |                   |                   |                   |
| Recommended fittings           | Clean series fittings 10-KQ2, 10-KF, 10-KDM, 10-KG<br>10-M, 10-MS, KP, KPQ, KPG |                   |                   |                   |                   |                   |
| Operating temperature          | -20 to 60°C   |                   |                   |                   |                   |                   |
| Material                       | Polyurethane  |                   |                   |                   |                   |                   |
| Color                          | Black   |                   |                   |                   |                   |                   |
| Min. bending radius (mm)       | 10  |                   | 15                |                   | 20                |                   |
| Tubing length per roll (m)     | 10  |                   |                   |                   |                   |                   |
| Cleanliness class (ISO class)  | Class 3   |                   |                   |                   |                   |                   |



Bend the tube into U-form at a temperature of 20°C. Fix one end and close loop gradually. Measure 2R when the tube breaks or is crushed.

Directional Control Valves

Air Cylinders

Rotary Actuators

Air Grippers

Air Preparation Equipment

Modular F. R.

Pressure Control Equipment

Fittings & Tubing

Flow Control Equipment

Pressure Switches/ Pressure Sensors