

Figure 1.1. The Photo of ATTB30B

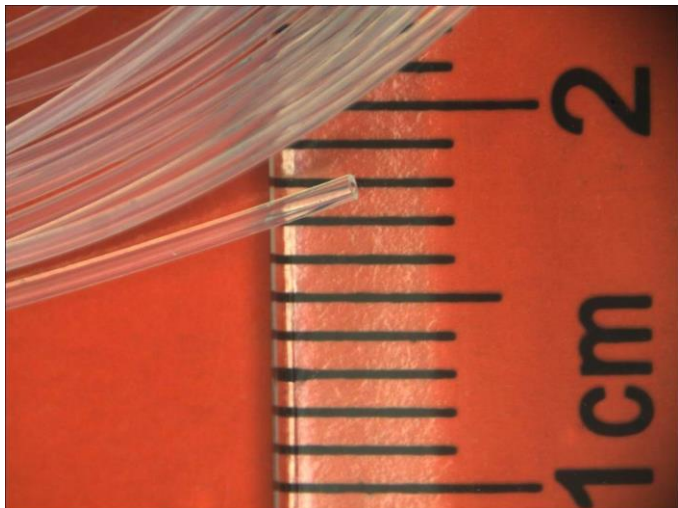


Figure 1.2. The photo of the Plastic Tubing

FEATURES

- Wide Operating Temperature Range: -234°C to 260°C
- Light Weight
- Can Be Steam or Chemically Sterilized
- Excellent Dielectric Insulation Properties
- Chemical Inert
- Corrosion Resistant
- Low Coefficient of Friction
- Flame Resistant: UL 94 VO
- Biocompatible: USP Class VI
- Indefinite Shelf Life
- Exceptional Mechanical Resistance under Severe Conditions

DESCRIPTION

The material of ATTB30B tubing is Polytetrafluoroethylene (PTFE). PTFE is a thermoplastic polymer, whose properties are gained from the aggregate effect of carbon-fluorine bonds.

PTFE's coefficient of friction is as low as 0.05 to 0.10, which is known as the third lowest of solid materials. The temperature range is from -234°C (-454°F) to 260°C (500°F). Its high melting temperature makes it suitable for use in high temperature applications. Combined with its chemical inertness and chemical resistance, PTFE outperforms glass and graphite, making it an excellent material for chemical and analytical researches and fluid transfers. It can be steam sterilized with its physical properties unaffected, such as its surface hardness, flex life and deformation under load. All these features make this special high temperature plastic tubing an excellent choice as protection from chemical contact or temperature extremes.

PTFE is translucent white in color. However, the degree of the whiteness varies from lot to lot. Colored tubing is also available. Figure 1.1 and 1.2 are the physical photos of ATTB30B.

This tubing is an extruded tubing, and the inside meter is 0.25mm. See Table 1 below for detailed specification. Figure 2 shows the mechanical dimensions of ATTB30B.

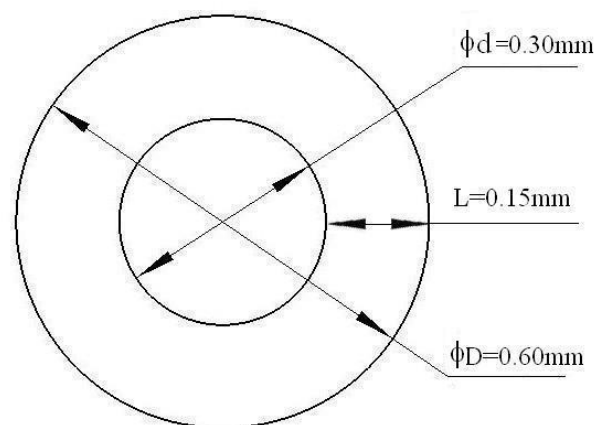


Figure 2. Mechanical dimensions of ATTB30B

APPLICATIONS

This tubing can be applied to many industries, such as chemical processing, electronic, aerospace and aviation, fiber optics, environmental and analytical. Also it can



withstand corrosive fluids, such as hydrocarbon and strong mineral acids, so it can be used in fluid transfers. This tubing can be used in the leads of thermistors.

When the leads are covered by the PTFE tubing, the thermistor can be used in severe environment of high temperature or chemical substances.

SPECIFICATIONS

Table 1. Characteristics

Part Number	Color	Shape	Material	Inside Diameter (φd)	Outside Diameter (φD)	Wall Thickness (L)
ATTB30B	White translucent	Round	PTFE	0.30mm (0.012in)	0.60mm (0.024in)	0.15mm (0.006in)

ORDERING INFORMATION

Table 2. Part Number

Part #	Description
ATTB30B	Special high temperature plastic tubing with chemical inertness and corrosion resistance. The ID is 0.30mm and the wall thickness is 0.15mm.

Table 3. Unit Prices

Quantity	10 – 49 ft	50 – 249ft	250 – 999ft	≥1000 ft
ATTB30B	\$0.40/ft	\$0.32/ft	\$0.24/ft	\$0.16/ft

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