

# Special dimensions PTFE tubing

## G TYPE



### MAINS CHARACTERISTICS

#### **MECHANICAL**

- Density (following ASTM-D-792) : 2.15.
- Tensile strength (following ASTM-D-638) : 25 MPa nominal.
- Ultimate elongation (following ASTM-D-638) : 350 % nominal.
- Coefficient of friction (following ASTM-D-256) :  $\approx 0.05$ .
- Hardness (following ASTM-D-2240) (Shore D) : 55.
- Excellent anti-adherent properties.

#### **THERMAL**

- Point of transition (following ASTM-D-3418) : 327°C.
- Operating temperature : -200°C à +260°C.
- Nonflammable.

#### **ELECTRICAL**

- Dielectric constant (following ASTM-D-150) : 2,1.
- Loss factor (following ASTM-D-495) : 0,0002.
- Dielectric strength (following ASTM-D-149) : 24 kV/mm.

#### **CHEMICAL**

- Chemical inertness (following ASTM-D-543).
- Excellent resistance to solvents (following ASTM-D-543).

#### **OTHERS**

- Water absorption (following ASTM-D-570) : < 0,005 %.
- Easy to clean.
- Non toxic.

#### **COLOURS**

- Standard colour : natural.
- On request : black, brown, red, orange, yellow, green, blue, violet, grey, white ou bicolour.

#### **PACKAGING**

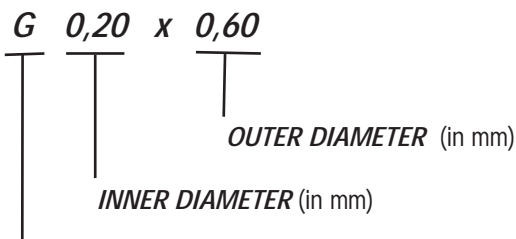
- The tubes are reeled on spools.
- Other packaging on request, (tubes can be cut to length, packed in plastic bag, ...).

Technical data sheet

SPECIAL PRODUCTS



## IDENTIFICATION CODE



### PRODUCT TYPE

- GSTD = Standard tube  
UTW = Ultra thin wall  
G = Special dimensions tube

Reference standard : *ASTM-D-4895*

AXON' REFERENCE	DIMENSIONS INNER Ø - OUTER Ø (mm)	THICKNESS (mm)	AVERAGE WEIGHT (g/100 m)	MIN. QUANTITY PRODUCED (m)
G 0,50 x 0,90	0,50 - 0,90	0,20	97	500
G 0,60 x 1,00	0,60 - 1,00	0,20	110	500
G 1,00 x 1,40	1,00 - 1,40	0,20	166	500
G 1,10 x 1,50	1,10 - 1,50	0,20	180	250
G 1,30 x 1,70	1,30 - 1,70	0,20	207	250
G 1,70 x 2,70	1,70 - 2,70	0,50	760	200
G 2,00 x 2,40	2,00 - 2,40	0,20	304	200
G 4,00 x 6,00	4,00 - 6,00	1,00	3456	100
G 6,00 x 8,00	6,00 - 8,00	1,00	4838	100

## STANDARD TOLERANCES

INNER DIAMETER (mm)	TOLERANCES (mm)	WALL THICKNESS (mm)	TOLERANCES (mm)
0,30 à 1,00	± 0,05	0,10 à 0,15	± 0,03
1,10 à 2,20	-0,05/+0,15	0,20 à 0,30	± 0,05
2,30 à 3,50	-0,10/+0,15	0,40 à 0,60	± 0,07
3,60 à 5,00	-0,15/+0,20	0,70 à 0,90	± 0,10
5,10 à 8,00	-0,15/+0,25	1,00 à 2,00	± 0,20

Other dimensions on request.

# Thin wall PTFE tubing

## TYPE L



### MAIN CHARACTERISTICS

#### MECHANICAL

- Density (following ASTM-D-792) : 2.15.
- Tensile strength (following ASTM-D-638) : 25 MPa nominal.
- Ultimate elongation (following ASTM-D-638) : 350 % nominal.
- Coefficient of friction (following ASTM-D-256) :  $\approx 0.05$ .
- Hardness (following ASTM-D-2240) (Shore D) : 55.
- Excellent anti-adherent properties.

#### THERMAL

- Point of transition (following ASTM-D-3418) : 327°C.
- Operating temperature : -200°C at +260°C.
- Nonflammable.

#### ELECTRICAL

- Dielectric constant (following ASTM-D-150) : 2.1.
- Loss factors (following ASTM-D-495) : 0.0002.
- Dielectric strength (following ASTM-D-149) : 24 kV/mm.

#### CHEMICAL

- Chemical inertness (following ASTM-D-543).
- Excellent resistance to solvents (following ASTM-D-543).

#### OTHERS

- Water absorption (following ASTM-D-570) : < 0.005 %.
- Easy to clean.
- Non toxic.

#### STANDARD

These tubes are produced according standard "UL" (Underwriters Laboratories Inc) style N° E108916.

#### COLOURS

- Standard colour : natural.
- On request : black, brown, red, orange, yellow, green, blue, violet, grey, white or bicolour.

#### PACKAGING

- The tubes are reeled on spools.
- Other packaging on request, (tubes can be cut to length, packaging in plastic bag, ...).





# Thin wall PTFE tubing

## M TYPE



### MAIN CHARACTERISTICS

#### MECHANICAL

- Density (following ASTM-D-792) : 2.15.
- Tensile strength (following ASTM-D-638) : 25 MPa nominal.
- Ultimate elongation (following ASTM-D-638) : 350 % nominal.
- Coefficient of friction (following ASTM-D-256) :  $\approx 0,05$ .
- Hardness (following ASTM-D-2240) (Shore D) : 55.
- Excellent anti-adherent properties.

#### THERMAL

- Point of transition (following ASTM-D-3418) : 327°C.
- Operating temperature : -200°C à +260°C.
- Nonflammable.

#### ELECTRICAL

- Dielectric constant (following ASTM-D-150) : 2.1.
- Loss factors (following ASTM-D-495) : 0.0002.
- Dielectric strength (following ASTM-D-149) : 24 kV/mm.

#### CHEMICAL

- Chemical inertness (following ASTM-D-543).
- Excellent resistance to solvents (following ASTM-D-543).

#### OTHERS

- Water absorption (following ASTM-D-570) : < 0,005 %.
- Easy to clean.
- Non toxic.

#### STANDARD

These tubes are produced according "UL" standard (Underwriters Laboratories Inc) style N° E108916.

#### COLOURS

- Standard colour : natural.
- On request : black, brown, red, orange, yellow, green, blue, violet, grey, white or bicolour.

#### PACKAGING

- The tubes are reeled on spools.
- Others packaging on request, (tubes can be cut to length, packed in plastic bag, ...).

Technical data sheet

SPECIAL PRODUCTS





# Ultra thin wall PTFE tubing

## TYPE UTW



### MAIN CHARACTERISTICS

#### MECHANICAL

- Density (following ASTM-D-792) : 2.15.
- Tensile strength (following ASTM-D-638) : 25 MPa nominal.
- Ultimate elongation (following ASTM-D-638) : 350 % nominal.
- Coefficient of friction (following ASTM-D-256) :  $\approx 0.05$ .
- Hardness (following ASTM-D-2240) (Shore D) : 55.
- Excellent anti-adherent properties.

#### THERMAL

- Point of transition (following ASTM-D-3418) : 327°C.
- Operating temperature : 200°C à +260°C.
- Nonflammable.

#### ELECTRICAL

- Dielectric constant (following ASTM-D-150) : 2.1.
- Loss factors (following ASTM-D-495) : 0.0002.
- Dielectric strength (following ASTM-D-149) : 24 kV/mm.

#### CHEMICAL

- Chemical inertness (following ASTM-D-543).
- Excellent resistance to solvents (following ASTM-D-543).

#### OTHERS

- Water absorption (following ASTM-D-570) : < 0,005 %.
- Easy to clean.
- Non toxic.

#### COLOURS

- Standard colour : natural.
- On request : black, brown, red, orange, yellow, green, blue, violet, grey, white or bicolour.

#### PACKAGING

- The tubes are reeled on spools.
- Others packaging on request (tubes can be cut to length, packed in plastic bag, ...).

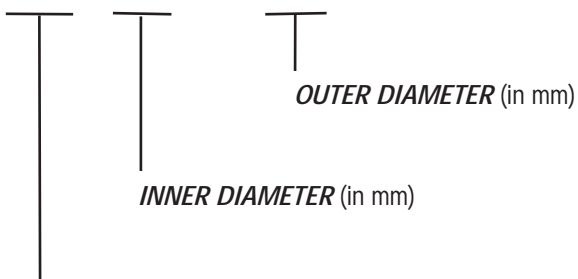
Technical data sheet

SPECIAL PRODUCTS



## IDENTIFICATION CODE

**UTW 0.20 x 0.40**



### PRODUCT TYPE

- GSTD = Standard tube
- UTW = Ultra thin wall
- G = Special dimensions tube

Reference standards : *ASTM-D-4895*

AXON' REFERENCE	DIMENSIONS INNER Ø - Ø OUTER (mm)	THICKNESS (mm)	AVERAGE WEIGHT (g/100 m)	MNI. QUANTITY PRODUCED (m)
UTW 0.20 x 0.40	0.20 - 0.40	0.10	21	1500
UTW 0.30 X 0.50	0.30 - 0.50	0.10	28	1250
UTW 0.40 x 0.60	0.40 - 0.60	0.10	35	1000
UTW 0.50 x 0.70	0.50 - 0.70	0.10	41	1000
UTW 0.60 x 0.80	0.60 - 0.80	0.10	48	750
UTW 0.70 x 0.90	0.70 - 0.90	0.10	55	750
UTW 0.80 x 1.00	0.80 - 1.00	0.10	62	750
UTW 0.90 x 1.10	0.90 - 1.10	0.10	69	500
UTW 1.00 x 1.20	1.00 - 1.20	0.10	75	500

## STANDARD TOLERANCES

INNER DIAMETER (mm)	TOLERANCES (mm)	WALL THICKNESS (mm)	TOLERANCES (mm)
0.20 at 1.20	± 0.05	0.10	±0.03

Other dimensions on request.

# Thermoretractable PTFE tubings

## KMP TYPE



### MAIN CHARACTERISTICS

- Operating temperature : -50°C to +260°C.
- Shrinkage temperature : 340°C.
- Shrinkage coefficient : 4/1.
- Shrinkage length : nom. 10 %.
- Tensile strength (following ASTM-D-638) : min. 1.73 daN/mm<sup>2</sup>.
- Ultimate elongation (following ASTM-D-638) : min. 200 %.
- Dielectric rigidity (following ASTM-D-2671) : min. 31.5 kV/mm.
- Volume resistivity (following ASTM-D-876) : min. 10<sup>18</sup> Ω.cm.
- Standard colour : natural (other on request).
- Standard packaging : 1.20 m length.

### DIMENSIONS

Norms of reference : ASTM-D-4895, MIL-DTL-23053 and MIL-DTL-23053/12.

AXON' REFERENCE	BEFORE SHRINKAGE		AFTER SHRINKAGE	
	INNER Ø (mm)	WALL THICKNESS (mm)	INNER Ø (mm)	WALL THICKNESS (mm)
KMP 8	3.18	0.10	0.94	0.30
KMP 13	4.75	0.10	1.27	0.30
KMP 22	7.92	0.10	2.00	0.30
KMP 45	11.13	0.10	2.85	0.30
KMP 70	19.05	0.10	5.70	0.38
KMP 100	25.40	0.10	7.06	0.38

