

# FLEXIBLE TECHNIC TUBING

## COPA (PU) - PA - PTFE - SPPA - SPPU - PE - PVC - PRO



We offer standard 7 types of tubing:

- **COPA**, CoPolyamide
- **PA**, Polyamide
- **PTFE**, Teflon
- **SPPA/SPPU**, Spiral
- **PE**, Polyethylene
- **PVC**, Filclair N with polyester fibre
- **PRO**, Profilair with polyester fibre

Available on roll, box and drum.

Other types of tubing available on request (duo-tubing, multi-tubing, atex-certificated...)



roll




box



drum

### COPA - COPOLYAMIDE COPA12 TUBE - C.STAR (REPLACES PU POLYURETHANE C.FLEX)

	TYPE	Ø Outside	Ø Inside	Bending Radius	Working Press.23°C	Burst Press.23°C
	COPA04025	4 mm	2.5 mm	10 mm	22 bar	approx. 3x the working pressure
COPA0604	6 mm	4 mm	15 mm	19 bar		
COPA0806	8 mm	6 mm	25 mm	16 bar		
COPA1008	10 mm	8 mm	35 mm	12 bar		
COPA1209	12 mm	9 mm	45 mm	13 bar		

**COPA** is a very innovative tube which combines the best properties of Polyurethane PU and Polyamide PA in one product COPA.

COPA is very suitable for tight bending radius in narrow cabins are requested together with pressure >12 bars and push-in fittings.

- **High flexibility**
- **Excellent bending radius**
- **Tighter tolerances than PU**
- **Good hydrolysis resistance**
- **Good chemical resistance**
- **Excellent temperature resistance**

**Temperature range:** From -40°C to +100°C

**Chemical resistance:** See page 4.14.05

**Packaging:** - 100M = 100 m roll (standard)

- 25BX = 25 m in carton box (standard)

**Also available:** - 100 m in carton box (on request)

- different sizes on drums (on request)

**Colors:** - Natural, BL=Blue, BK=Black, RD=Red,

YL=Yellow, GR=Green (standard)

- GY=GREY (on request)

- Custom colours (RAL) for minimum 3.000 m.

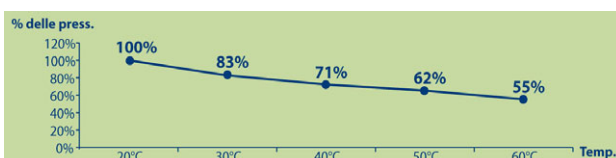
#### CODIFICATION KEY

**COPA0806BL-25BX**

COPA=Material 0806=Diameter


BL=Blue 25BX=25mbox

(PU0806 => COPA0806)



Pressure variation in function of temperature

## PA - POLYAMIDE PA12 TUBE - C.BEST

	TYPE	Ø Outside	Ø Inside	Bending Radius	Working Press. 23°C	Burst Press. 23°C
	PA04027	4 mm	2.7 mm	25 mm	26 bar	approx. 3x the working pressure
	PA0604	6 mm	4 mm	35 mm	27 bar	
	PA0806	8 mm	6 mm	40 mm	19 bar	
	PA1008	10 mm	8 mm	60 mm	15 bar	
	PA1209	12 mm	9 mm	70 mm	19 bar	
	PA1411	14 mm	11 mm	90 mm	16 bar	

PA tube is produced with an innovative polymer named PA12PHL.

PA respect the ISO 7628, DIN 73378 (all colours) and DIN 74324 (only black) standard

- High working pressure
- Good chemical resistance
- Very good hydrolysis resistance
- Excellent dimensional stability
- Good temperature and UV resistance

**Temperature range:** From -60°C to +130°C

**Chemical resistance:** See page 4.14.05

**Packaging:** - 100M = 100 m roll (standard)

- 25BX = 25 m in carton box (standard)

**Also available:** - 100 m in carton box (on request)

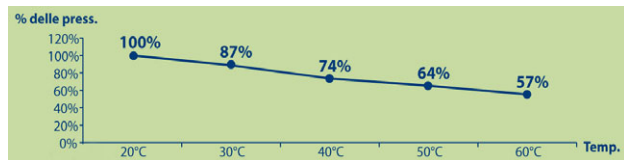
- different sizes on drums (on request)

**Colors:** - Natural, BL=Blue, BK=Black, RD=Red,

YL=Yellow, GR=Green (standard)

- OR=Orange (on request)

- Custom colours (RAL) for minimum 3.000 m.



Pressure variation in function of temperature


### CODIFICATION KEY

#### PA0806BL-25BX

PA=Material 0806=Diameter

BL=Blue 25BX=25mbox

## PTFE - POLYTETRAFLUORETHYLENE TUBE - TEFLON

	TYPE	Ø Out/ Inside	Bending Radius	Working Press. 20°C
	PTFE0604-100M	6/4 mm	40 mm	15 bar
	PTFE0806-100M	8/6 mm	55 mm	11 bar
	PTFE1008-100M	10/8 mm	90 mm	9 bar
	PTFE1210-100M	12/10 mm	135 mm	8 bar

PTFE (polytetrafluorethylene) tubing for transfer of high purity products, chemicals, dairy and cosmetic products. Also suitable for heat exchangers and as protective sleeve for cables.

**Temperature range:** From -70°C to +260°C

**Chemical resistance:** Available on request

**Packaging:** 100M = 100 m roll (standard)

**Also available:** different sizes on drums (on request)

**Colors:** Natural (standard)

**Certificate:** FDA/EC1935/2004 (on request)

Temperature	-50°C	+20°C	+65°C	+100°C	+150°C	+200°C	+250°C
Pressure	100%	100%	100%	50%	30%	20%	10%


### CODIFICATION KEY

#### PTFE0806-100M

PTFE=Material 0806=Diameter

COLOR=Natural 100M=Length

## SPPA - POLYAMIDE PA12 SPIRAL TUBE - C.COIL

	TYPE	Ø Outside	Ø Inside	Ø Spiraal Inside	Tube Length	Work Length
	SPPA0604-30M	6 mm	4 mm	60 mm	30 m	17 m
	SPPA0806-30M	8 mm	6 mm	80 mm	30 m	17 m
	SPPA1008-30M	10 mm	8 mm	90 mm	30 m	17 m
	SPPA1210-30M	12 mm	10 mm	120 mm	30 m	17 m

**COILS** ensure an excellent elastic memory and let the operator work freely.

**Temperature range:** From -60°C to +130°C

**Chemical resistance:** See page 4.14.05

**Colors:** Blue (standard)


### CODIFICATION KEY

#### SPPA0806-30M

SP=Spiral 0806=Diameter 30M=Length

Technical features see POLYAMIDE PA12 above

## SPPU - POLYURETHANE 95 SHORE A SPIRAL TUBE WITH FITTINGS

	CODE	Ø Out/In	Ø Spiral	Tube Length	Work Length	Fitting
	SPPU06-2M-1/4"	6/4 mm	32 mm	2 m	1 m	M1/4"
	SPPU08-5M-1/4"	8/5.5 mm	41 mm	5 m	4 m	M1/4"
	SPPU08-7.5M-1/4"	8/5.5 mm	41 mm	7.5 m	6 m	M1/4"
	SPPU10-7.5M-1/4"	10/6.5 mm	60 mm	7.5 m	6 m	M1/4"
	SPPU12-7.5M-3/8"	12/8 mm	80 mm	7.5 m	6 m	M3/8

**COILS** ensure an excellent elastic memory and let the operator work freely.

**Temperature range:** From -40°C to +60°C

**Chemical resistance:** Available on request

**Colors:** Blue (standard)

### CODIFICATION KEY


#### SPPU06-2M-1/4"

SP=Spiral PU=Material 06=Ext.Diameter  
2M=Length 1/4"=Fitting

Technical modifications keep in reserve !

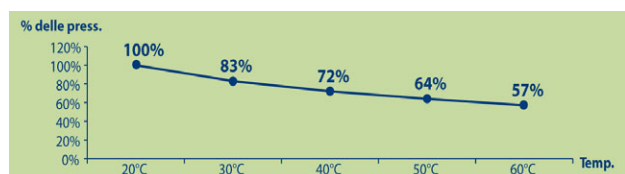
(2022/01)

## PE - POLYETHYLENE LD - C.ECO

	TYPE	Ø Outside	Ø Inside	Bending Radius	Working Press.23°C	Burst Press.23°C
	PE0402	4 mm	2 mm	18 mm	21 bar	approx. 3x the working pressure
PE0604	6 mm	4 mm	30 mm	13 bar		
PE0806	8 mm	6 mm	40 mm	9 bar		
PE1008	10 mm	8 mm	60 mm	7 bar		
PE1210	12 mm	10 mm	80 mm	6 bar		

**PE** offers excellent water barrier properties when the temperature does not exceed +60°C.

Produced from an oil source (ethylene), PE is a commodity polymer used for cost sensitive applications with low level of pressures (< 5 bars) and within a restrictive range of temperatures from -10°C to +60°C.



Pressure variation in function of temperature

**Temperature range:** From -10°C to +60°C

**Chemical resistance:** See page 4.14.05

**Packaging:** - 100M = 100 m roll (standard)

- 25BX = 25 m in carton box (on request)

**Also available:** - 100 m in carton box (on request)

- different sizes on drums (on request)

**Colors:** - Natural, BL=Blue, BK=Black (standard)

- RD=Red, YL=Yellow, GR=Green (on request)

- Custom colours (RAL) for minimum 3.000m.

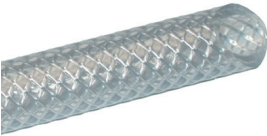
### CODIFICATION KEY

#### PE0806BL-25BX

PE=Material 0806=Diameter

BL=Blue 25BX=25mbox

## PVC - FILCLAIR N TUBE WITH POLYESTER FIBRE

	CODE	Ø Outside	Ø Inside	Bending Radius	Working Pressure at 23°C	Burst Pressure at 23°C
	PVC06-50M	12 mm	6 mm	55 mm	15 bar	approx. 3x the working pressure
PVC08-50M	14 mm	8 mm	60 mm	15 bar		
PVC10-50M	16 mm	10 mm	75 mm	15 bar		
PVC12-50M	18 mm	12 mm	105 mm	10 bar		
PVC19-50M	26 mm	19 mm	195 mm	10 bar		
PVC25-50M	33 mm	25 mm	235 mm	10 bar		


**PVC** offers a flexible PVC tube reinforced with polyester fibre for compressed air, industrial gases, water and vacuum up to Ø 25 mm.

**Temperature range:** From -15°C to +60°C

**Packaging:** 50 m roll with polyethylene film around

**Color:** Transparent

## PRO - PROFILAIR TUBE WITH POLYESTER FIBRE

	CODE	Ø Outside	Ø Inside	Bending Radius	Working Pressure at 23°C	Burst Pressure at 23°C
	PRO08-50M	14 mm	8 mm	65 mm	20 bar	approx. 3x the working pressure
PRO12.7-50M	20 mm	12.7 mm	90 mm	20 bar		

**PRO** offers an even more flexible PVC tube reinforced with polyester fibre for compressed air and industrial gas.

**Temperature range:** From -15°C to +60°C

**Packaging:** 50 m roll with polyethylene film around

**Color:** Beige

# RESISTENZE CHIMICHE +23°C

## CHEMICAL RESISTANCE AT +23°C

SOSTANZA / SUBSTANCE	PA12 / PA11 / PA10.12		COPA 12	POLIAMMIDE 6 POLYAMIDE 6	POLIURETANO POLIURETHANE	POLIETILENE POLIETHYLENE	PVDF	PTFE
	<i>c.best</i> <i>c.pro</i>	<i>c.bio</i> <i>c.flam</i>	<i>c.star</i> <i>capa</i>	<i>c.sih</i>	<i>c.flex</i>	<i>c.eco</i>	<i>c.tech</i>	<i>c.chem</i>
ACETALDEHYDE	O	O	O	-	O	O	N	O
ACETIC ACID	O	O	O	L	O	O	O	O
ACETONE	O	O	O	-	O	O	N	O
ACETYLENE	O	O	O	-	O	-	O	O
AMMONIA LIQUID	O	O	O	-	O	G	N	-
AMYL ACETATE	O	O	O	-	O	-	O	O
ANILINE	G	G	-	-	-	-	O	O
A-NTIFREEZE	O	O	-	-	-	-	-	-
BENZOL	G	O	-	-	-	N	O	-
BENZYL ACOHOL	N	N	N	N	N	G	O	O
BROMINE	N	N	N	-	N	N	O	-
BUTANE	O	O	O	-	O	O	O	O
B-UTANOL	O	O	-	-	-	-	-	-
CARBON TETRACHLORIDE	L	L	O	N	O	N	O	O
CHLORINE	N	N	N	-	N	-	O	O
CHLOROBENZOL	N	N	-	-	-	-	O	O
CHLOROFORM	N	N	N	N	N	N	O	O
CITRIC ACID	O	O	O	L	O	-	O	O
CONCENTRATED SULPHURIC ACID	N	N	N	N	N	G	O	O
CRESOL	L	L	N	-	N	N	O	O
DECALINE	O	O	O	-	O	N	O	O
ENGINE OIL	O	O	O	-	O	O	O	O
ETHANOL	O	O	-	-	-	O	-	-
ETHER	O	O	-	-	-	N	-	-
ETHYL ACETATE	O	O	O	-	O	O	O	O
ETHYL OXIDE	O	O	-	-	-	N	-	-
FORMALDEYDE	L	L	-	-	-	O	O	O
FORMIC ACID	L	L	N	N	N	O	O	O
FRIGEN F 12 LIQUID	G	O	-	-	-	-	O	O
GASOIL	O	O	N	N	N	-	-	-
GLYCERIN	OG	O	O	O	O	O	O	O
GLYCOLE	O	O	O	L	O	O	O	O
GREESE	O	O	O	-	O	O	O	O
GREESE FOOD	O	O	O	-	O	O	O	O
HEPTANE	O	O	O	-	O	G	-	-
HYDRAULIC OIL	O	O	O	-	O	O	O	O
HYDROCLORIC ACID 1%	L	L	N	N	N	O	O	O
HYDROCLORIC ACID 10%	L	L	N	N	N	O	O	O
HYDROFLUORIDRIC GAS	-	L	-	-	-	-	-	-
HYDROGEN PEROXIDE 20%	L	L	-	-	-	G	O	O
HYDROGEN XXXX	-	O	-	-	-	O	-	-
IODINE TINCTURE	-	L	-	-	-	-	-	-
ISOOCTANE	OG	O	-	-	-	N	O	-
ISOPROPANOL	-	O	-	N	-	-	-	-
KEROSENE	O	O	O	-	O	-	O	-
LACTIC ACID	O	O	O	N	O	O	O	O
MAGNESIUM CHLORIDE 10%	O	O	O	-	O	O	O	O
MERCURY	O	O	O	-	O	O	O	O
METHANOL	L	L	-	N	-	O	-	-
METHYLENE CHLORIDE	O	O	O	N	O	N	O	O
MILK	O	O	O	O	O	O	O	O
MINERAL OIL	O	O	O	-	O	O	O	O
NAPHTHA	O	O	-	-	-	-	-	O
NAPHTHALENE	O	O	O	-	O	O	O	O

Technical modifications keep in reserve !

(2022/01)

# RESISTENZE CHIMICHE +23°C

## CHEMICAL RESISTANCE AT +23°C

SOSTANZA / SUBSTANCE	PA12 / PA11 / PA10.12		COPA 12	POLIAMMIDE 6 POLYAMIDE 6	POLIURETANO POLIURETHANE	POLIETILENE POLIETHYLENE	PVDF	PTFE
	<i>c.best</i> <i>c.pro</i>	<i>c.bio</i> <i>c.flam</i>	<i>c.star</i> <i>copa®</i>	<i>c.six</i>	<i>c.flex</i>	<i>c.eco</i>	<i>c.tech</i>	<i>c.chem</i>
NITRIC ACID	N	N	N	N	N	N	L	O
NITROBENZOL	L	L	-	-	-	-	-	-
OIL ETHER	-	O	-	-	-	-	-	-
OILS	O	O	-	-	-	-	O	O
OLEIC ACID	O	O	O	-	O	O	O	O
OLEUM	L	L	N	-	N	N	N	-
OXALIC ACID	O	O	O	-	O	O	O	O
OXIGEN	O	O	O	N	O	-	O	O
OZONE	L	L	N	-	N	N	O	O
PARAFIN OIL	O	O	O	-	O	O	O	O
PERCHLOROETHYLENE	N	O	O	-	O	-	O	O
PETROL	G	O	-	-	-	G	O	-
PETROLEUM	O	O	O	-	O	OG	O	O
PHENOL	N	N	-	-	-	N	O	O
POTASSIUM CARBONATE	O	O	O	-	O	-	O	O
POTASSIUM HYDROXIDE 10%	OG	O	-	-	-	O	N	-
POTASSIUM HYDROXIDE 50%	OG	O	-	-	-	O	N	-
POTASSIUM PERMANGANATE	N	N	N	N	N	O	O	-
PROPANE	O	O	O	-	O	-	O	O
PYRIDINE	N	O	N	N	N	OG	N	-
SALICYLIC ACID	O	O	O	-	O	-	O	O
SEA WATER	O	O	O	O	L	O	O	O
SILICON OIL	O	O	O	-	O	O	O	O
SOAP SUDS	O	O	-	-	-	G	O	O
SODA 10%	O	O	-	-	-	-	-	-
SODA 50%	O	O	-	-	-	-	-	-
SODIUM CARBONATE 10%	O	O	-	-	-	-	O	-
SODIUM CARBONATE 50%	L	O	-	-	-	-	O	-
SODIUM CHLORIDE (Cloruro di sodio saturo)	O	O	O	-	O	O	O	O
SODIUM CHLORIDE (Sale da cucina)	O	O	-	-	-	O	O	-
SODIUM SULPHATE (Solfato di rame)	O	O	O	-	O	O	O	-
SODIUM SULPHATE (Solfato di sodio)	o	o	-	-	-	-	-	-
STARCH	O	O	O	-	O	O	O	O
STEARIC ACID	O	O	O	-	O	G	O	O
STEARINE	O	O	O	-	O	-	-	-
STYRENE	O	O	-	-	-	-	-	O
SULOHUR CHLORIDE	L	L	-	-	-	N	O	O
SULPHURIC ACID 10%	L	L	N	L	N	G	O	O
TALLOW	O	O	-	-	-	O	O	-
TARTARIC ACID	O	O	O	-	O	O	O	O
TETRALIN	-	O	-	-	-	-	-	-
TOLUOLE	O	O	O	-	O	N	O	-
TRANSFORMER OIL	O	O	O	-	O	O	O	O
TRICHOETHANE	L	L	N	N	N	N	O	-
TURPENTINE	O	O	O	-	O	OG	O	O
UREA	O	O	O	-	O	O	O	O
UREIC ACID	O	O	O	-	O	N	O	O
URINE	O	O	O	-	O	O	O	O
VASELLINE	O	O	O	-	O	O	O	O
VINEGAR	O	O	O	-	O	O	O	O
WATER	O	O	O	O	L	O	O	O
WAX	O	O	-	-	-	-	-	-
XYOLO	O	O	-	-	-	-	-	-
ZINC CHLORIDE (WATER BASED)	O	O	O	-	O	O	O	O

O ▶ Ottima resistenza / Good resistance    G ▶ Azione rinforzante / Swelling action    L ▶ Resistenza limitata / Limited resistance    N ▶ Pessima resistenza / Poor resistance    - ▶ Nessuna informazione disponibile / No information available

Technical modifications keep in reserve !

(2022/01)