

BI-POLYMER TUBES

This very innovative tube combines in one product the best properties of polyurethane and the ones of the Polyamide. tubes are made of an exclusive recipe of co-polyurethane and offers:

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



These tubes are particularly indicated for the pneumatic market where tight bending radius for mounting in narrow cabins are requested together with pressure till 12 bars and push-in fittings

Dimensions

Internal diameter	External diameter	Thick.	Bending Radius	Working Pressure (23°C)	Burst Pressure	GISS 25M	GISS 100M	Colour
2.5	4	0.75	10	22 bars	65 bars	860502	860523	Blue
2.5	4	0.75	10	22 bars	65 bars	860500	860521	White
2.5	4	0.75	10	22 bars	65 bars	860501	860522	Black
2.5	4	0.75	10	22 bars	65 bars	860503	860524	Green
2.5	4	0.75	10	22 bars	65 bars	860504	860525	Red
2.5	4	0.75	10	22 bars	65 bars	860505	860526	Yellow
4	6	1	15	19 bars	57 bars	846239	846248	Blue
4	6	1	15	19 bars	57 bars	846237	846246	White
4	6	1	15	19 bars	57 bars	846238	846247	Black
4	6	1	15	19 bars	57 bars	860506	860527	Green
4	6	1	15	19 bars	57 bars	860507	860528	Red
4	6	1	15	19 bars	57 bars	860508	860529	Yellow
6	8	1	25	16 bars	47 bars	846242	846251	Blue
6	8	1	25	16 bars	47 bars	846240	846249	White
6	8	1	25	16 bars	47 bars	846241	846250	Black
6	8	1	25	16 bars	47 bars	860509	860530	Green
6	8	1	25	16 bars	47 bars	860510	860531	Red
6	8	1	25	16 bars	47 bars	860511	860532	Yellow
8	10	1	35	12 bars	36 bars	846245	860534	Blue
8	10	1	35	12 bars	36 bars	846243	846252	White
8	10	1	35	12 bars	36 bars	846244	860533	Black
8	10	1	35	12 bars	36 bars	860512	860535	Green
8	10	1	35	12 bars	36 bars	860513	860536	Red
8	10	1	35	12 bars	36 bars	860514	860537	Yellow

Internal diameter	External diameter	Thick.	Bending Radius	Working Pressure (23°C)	Burst Pressure	GISS 25M	GISS 100M	Colour
9	12	1.5	45	13 bars	40 bars	860517	860540	
9	12	1.5	45	13 bars	40 bars	860515	860538	
9	12	1.5	45	13 bars	40 bars	860516	860539	
9	12	1.5	45	13 bars	40 bars	860518	860541	
9	12	1.5	45	13 bars	40 bars	860519	860542	
9	12	1.5	45	13 bars	40 bars	860520	860543	

PHYSICAL CHARACTERISTICS

Temperature range :

From -40°C to +100°C

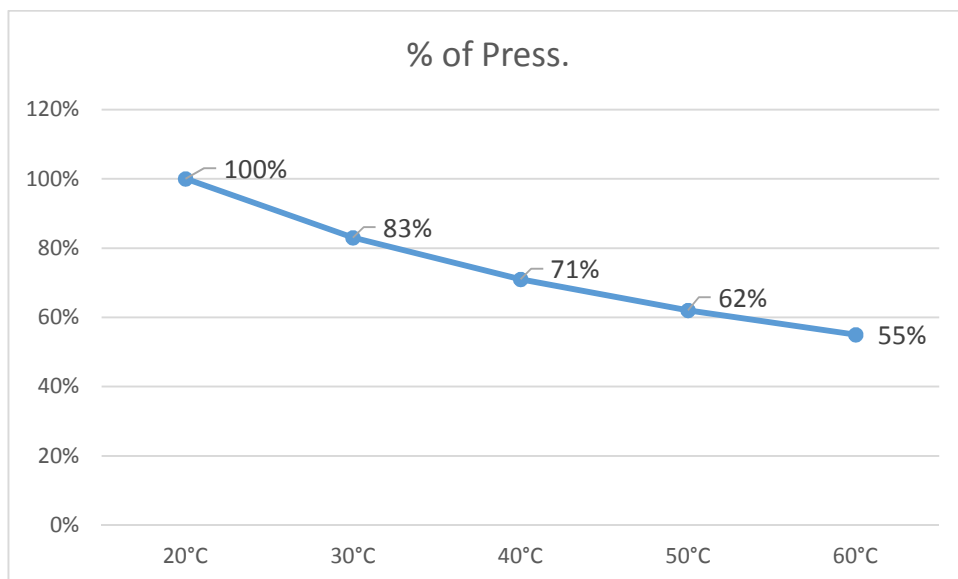
Tolerances :

Tolerance on external diameter :

From 4 mm to 12 mm : +/- 0.10 mm

From 12 mm to 15 mm : +/- 0.15 mm

Pressure variation as function of temperature :



CHEMICAL RESISTANCE

Amyl acetate	G	Zinc Chloride (water based)	G
Ethyl acetate	G	Wax	-
Acetone	G	Crésol	N
Acétylène	G	Decaline	G
Acétic acid	G	Sulohur Chloride	-
Hydrochloric Acid 1%	N	Water	G
Hydrochloric Acid 10%	N	Sea water	G
Citric Acid	G	Hydrogen Peroxide 20%	-
Formic Acid	N	Petrol	-
Lactic Acid	G	Acetaldehyde	G
Nitric Acid	N	Ethanol	-
Oleic Acid	G	Ether	-
Oxalic Acid	G	Ethyl Oxide	-
Salicylic Acid	G	Oil Ether	-
Stearic Acid	G	Gasoil	N
Sulphuric Acide 10%	N	Hydrofluoridric gas	-
Concentrated Sulphuric Acide	N	Glycerin	G
Tartaric Acid	G	Glycole	G
Ureic Acid	G	Grease	G
Benzyl Alcohol	N	Grease food	G
Starch	G	Heptane	G
Ammonia liquid	G	Oils	-
Aniline	-	Parafin Oil	G
Antifreeze	-	Silicon Oil	G
Benzol	-	Transformer Oil	G
Bromine	N	Hydraulic Oil	G
Butane	G	Mineral oil	G
Butanol	-	Engine Oil	G
Potassium Carbonate	G	Hydrogen XXX	-
Sodium Carbonate 10%	-	Potassium Hidroxiide 10%	-
Sodium Carbonate 50%	-	Potassium Hidroxiide 50%	-
Chlorine	N	Isoocthane	-
Chlorobenzol	-	Isopropanol	-
Chloroform	N	Kerosene	G
Magnesium Chloride 10%	G	Milk	G
Methylene Chloride	G	Frigen F 12 Liquid	-
Sodium Chloride	G	Mercury	G

G Good Resistance S:Swelling Action L:Limited Resistance N:Poor resistance -:Non tested

Formaldeyde	-
Methanol	-
Soap suds	
Naphtalene	G
Naphta	-
Nitrobenzole	-
Oleum	N
Oxigen	G
Ozone	N
Perchloroethylene	G
Potassium Permanganate	N
Petroleum	G
Phenol	-
Propane	G
Pyridine	N
Sodium Chloride	-
Soda 10%	-
Soda 50%	-
Stearine	G
Styrene	-
Tallow	-
Copper Sulfate	G
Sodium Sulfate	-
Iodine Tincture	-
Turpentine	G
Carbon Tetrachloride	G
Tetralin	-
Toluole	G
Trichlorethane	N
Urea	G
Urine	G
Vaseline	G
Vinegar	G

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