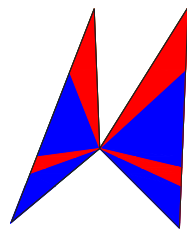


2015



MEDIFLY S.R.L.



CATALOGUE
-Technical Sector-
Section A

Technical Sector



Milk Sector

Dental Sector



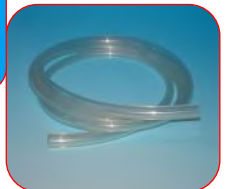
Alimentary Sector

Beverage Sector



Fittings Sector

Medical Sector



POLYURETHANE POLYETHER 90 ShA WATER RESISTANT SUPER SOFT (TYPE 1190) CALIBRATED TUBES

Technical data sheet n.

74.1

NEW
2015



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	DIN 53505	90 ShA
Water absorption	ISO 62 - a 23°C 50% r.h.	< 1%
Elongation at break	DIN53504	550%
Tear resistance	DIN53515	85 N/mm
Abrasion	DIN 53516	35 mm ³
Working temperature	-	- 40°C / +60°C

internal Ø	tolerance (mm)
1 - 8	± 0,2

external Ø	tolerance (mm)
2 - 10	± 0,25

TECHNICAL CHARACTERISTICS:

- good resistance to atmospheric agents
- extremely resistant to fatigue
- good aging
- low sensible to "click" and "stress cracking" effects
- very high flexibility to low temperature
- low resistance at pressures
- swivelling fittings are recommended

NORMS: the raw material used to produce these tubes is according to: Directive EEC 2011/65 (RoHS), USP ClassVI, Reg. UE 10/2011, FDA

APPLICATIONS: This kind of material is particularly indicated for applications as robotic, pneumatic, tools, industrial machines, cooling systems, gaseous azoth pumps, water, car machines washing, so where is necessary a tube very flexible and suitable for water contact.

NOTE: The use of this typology of tube with continuous pulsating pressures can create heat accumulation, although it is particularly resistant to labour and tension flexions.

Polyurethane is generally resistant to ozone, oils, fats, fuels and moderate chemical solutions. In isn't resistant, or low resistant, to concentrate acids, ketons, esters, hydrocarbons, chloride.

STANDARD MARKING:

TPU SUPER SOFT WATER RESISTANT Ø4X6 90SHA LOT../. MADE IN ITALY
The marking is printed every 50cm. Customized marking on demand.



Polyurethane Polyether 90 ShA Water Resistant SUPER SOFT - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PUS24	SB001	T002 Transparent	14	53	10
2.5	4	PUS254	SB003	T004 Transparent	9	37	14
4	6	PUS46	SB005	T006 Transparent	8	32	15
5.5	8	PUS558	SB007	T008 Transparent	7.5	30	25
6	8	PUS68	SB009	T010 Transparent	6	23	30
6.5	10	PUS6510	SB011	T012 Transparent	8.5	34	35
7.5	10	PUS7510	SB013	T014 Transparent	6	25	35
8	10	PUS810	SB015	T016 Transparent	5	20	40
8	12	PUS812	SB017	T018 Transparent	8	32	45
10	14	PUS1014	SB019	T020 Transparent	7	27	120

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-40°C	-20°C	0°C	+ 23°C	+30°C	+40°C	+50°C	+60°C
	Coefficient	x 2,5	x 1,87	x 1,4	x 1	x 0,84	x 0,70	x 0,60	x 0,52

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

POLYURETHANE 98 ShA CALIBRATED TUBES

Technical data sheet n.

1.1



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	DIN 53505 - ISO868	98 ShA / 52 ShD
Water absorption	a 23°C 50% r.h.	< 1%
Density	DIN 53479 - ISO1183	1,22 g/cm ³
Elongation at break	DIN53504 - ISO37	500%
Tear resistance	DIN53515 - ISO34	130 N/mm
Flexural elastic modulus	ASTMD 790	140 MPa
Abrasion loss	DIN 53516 - ISO4649	25 mm ³
Break resistance	DIN53504 - ISO37	55 MPa
Working temperature	-	- 40°C / +60°C

internal Ø	tolerance (mm)
1,5 - 7,5	± 0,2
8 - 12	± 0,3

external Ø	tolerance (mm)
4 - 8	± 0,1
10 - 14	± 0,15

TECHNICAL CHARACTERISTICS:

- very high flexibility at low temperatures
- low sensible to "click" and "stress cracking" effect
- excellent resistance to abrasion
- good resistance to atmospheric agents
- good aging
- extremely resistant to fatigue
- ozone resistant

NORMS: the raw material used to produce these tubes is according to: Directive EEC 2011/65 (RoHS), eventual alimentary declarations of conformity about the raw material can be requested at the moment of the order.

NOTE: The use of this typology of tube with continuous pulsating pressures can create heat accumulation, although it is particularly resistant to labour and tension flexions.

Polyurethane is generally resistant to ozone, oils, fats, fuels and moderate chemical solutions. In isn't resistant, or low resistant, to concentrate acids, ketons, esters, hydrocarbons, chloride.

STANDARD MARKING:

I TPU 4X6 POLYURETHANE SH.A 98 LOT...../. MADE IN ITALY
The marking is printed every 50cm. Customized marking on demand.



Polyurethane 98 ShA calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
1,5	3	PU153	SB199 N073 R201 BK194 G200		20	80	10
2	4	PU24	SB001 N002 Y005 R004 BK003 CN121 G006		15	60	11
2	4	PU24	GY090		15	60	11
2,5	4	PU254	SB007 N008 Y011 R010 BK009 CN107 G012		10	40	15
2,5	4	PU254	GY173		10	40	15
3	5	PU35	SB187 N124 BK193	Y250 R251 G252 CN195	12	50	16
4	6	PU46	SB013 N014 R016 Y017 BK015 CN103 G018		10	40	18
4	6	PU46	GY091		10	40	18

To be continue →

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
5	8	PU58	SB062 N063 BK122 Y248	R246 G247	13	52	25
5,5	8	PU558	SB019 N020 R022 Y023 BK021 CN118 G024		10	40	30
5,5	8	PU558	GY155		10	40	30
6 (5,7)	8	PU68 PLUS	N134 R158 Y159 BK112 CN110 G177		8	32	35
6 (5,7)	8	PU68 PLUS	GY172		8	32	35
6	8	PU68	SB025 N026 Y029 R028 BK027 CN104 G030		7	28	35
6,5	10	PU6510	SB031 N032 Y035 R034 BK033 CN119 G036		10	40	30
7	10	PU710	SB074 N151 BK189 CN160	Y253 R254 G255	8,5	35	30
7	10	PU710	GY176		8,5	35	30
7,5	10	PU7510	SB037 N038 R040 BK039 Y041 G042	CN205	7,5	30	40
8 (7,7)	10	PU810 PLUS	N152 R174 BK123 CN111	Y256 G257	6,5	27	40
8 (7,7)	10	PU810 PLUS	GY156		6,5	27	40
8	10	PU810	SB043 N044 R046 Y047 BK045 CN105 G048		5,5	22	45
8	12	PU812	SB049 N050 Y053 BK051 CN128	R052 G054	9	36	50
9	12	PU912	SB055 N056 R058 BK057 CN106 G060	Y059	6	25	50
9	12	PU912	GY214		6	25	50
11	14	PU1114	CN182		5	22	150
12	14	PU1214	SB068		3	12	150
12	16	PU1216	SB276		5	22	200

Available also in 25m boxes - 100m FAST FLY™ boxes - FAST FLY™ BOX with 4 reels of 25m

<u>Correction value scale for working pressure in consideration of the temperature variation</u>	Temperature	-20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C
		Coefficient	x 1,87	x 1,4	x 1	x 0,84	x 0,70	x 0,60	x 0,52

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Density	DIN 53479 - ISO1183	1,22 g/cm ³
Water absorption	a 23°C 50% r.h.	< 1%
Elongation at break	DIN53504 - ISO37	500%
Tear resistance	DIN53515 - ISO34	100 N/mm
Flexural elastic modulus	ASTMD 790	120 MPa
Abrasion loss	DIN 53516 - ISO4649	30 mm ³
Break resistance	DIN53504 - ISO37	55 MPa
Working temperature	-	- 20°C / +60°C

internal Ø	tolerance(mm)
2 - 7,5	± 0,2
8 - 9	± 0,3

external Ø	tolerance(mm)
4 - 8	± 0,1
10 - 12	± 0,15

TECHNICAL CHARACTERISTICS:

- very high flexibility at low temperatures
- low sensible to "click" and "stress cracking" effect
- excellent resistance to abrasion
- good resistance to atmospheric agents
- good aging
- extremely resistant to fatigue
- excellent transparency

NORMS: the raw material used to produce these tubes is according to: Directive EEC 2011/65 (RoHS), eventual alimentary declarations of conformity about the raw material can be requested at the moment of the order.

NOTE: The use of this typology of tube with continuous pulsating pressures can create heat accumulation, although it is particularly resistant to labour and tension flexions.

Polyurethane is generally resistant to ozone, oils, fats, fuels and moderate chemical solutions. In isn't resistant, or low resistant, to concentrate acids, ketons, esters, hydrocarbons, chloride.

STANDARD MARKING:

I POLYURETHANE TRS Ø4X6 LOT.../.. MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



Polyurethane 98 ShA Translucid TRS calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock		Colours realizable ON DEMAND		Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm								
2	4	PU24	TSB188	T113	TR219	TG220	12	48	8
2,5	4	PU254	TSB080	T120	TR221	TG222	10	40	10
4	6	PU46	TSB081	T093	TR223	TG224	9	36	15
5,5	8	PU558	TSB082	T064	TR225	TG226	9	36	30
6	8	PU68	TSB100	T086	TR227	TG228	6	24	35
6,5	10	PU6510	TSB101	T066	TR229	TG230	7	28	30
7,5	10	PU7510	TSB083	T067	TR231	TG232	6	25	40
8	10	PU810	TSB099	T065	TR233	TG234	5	20	45
8	12	PU812	TSB218	T238	TR217	TG235	9	36	50
9	12	PU912	TSB084	T070	TR236	TG237	6	24	50

These tubes are available also in 25m boxes

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+ 23°C	+30°C	+40°C	+50°C	+60°C	+70°C
	Coefficient	x1,87	x 1,4	x 1	x 0,84	x 0,70	x 0,60	x 0,52	x 0,47

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

POLYURETHANE 98 ShA - H35 CALIBRATED TUBES

Technical data sheet n.

1.5



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	DIN 53505 - ISO868	55 ShD
Water absorption	a 23°C 50% r.h.	< 1%
Density	DIN 53479 - ISO1183	1,22 g/cm ³
Elongation at break	DIN53504 - ISO37	400%
Tear resistance	DIN53515 - ISO34	130 N/mm
Flexural elastic modulus	ASTMD 790	200 MPa
Abrasion loss	DIN 53516 - ISO4649	25 mm ³
Break resistance	DIN53504 - ISO37	55 MPa
Working temperature	-	- 20°C / +60°C

internal Ø	tolerance (mm)
2 - 7,5	± 0,2
8 - 12	± 0,3

external Ø	tolerance (mm)
4 - 8	± 0,1
10 - 12	± 0,15

TECHNICAL CHARACTERISTICS:

- very high flexibility at low temperatures
- low sensible to "click" and "stress cracking" effect
- excellent resistance to abrasion
- good resistance to atmospheric agents
- good aging
- extremely resistant to fatigue

NORMS: the raw material used to produce these tubes is according to:
Directive EEC 2011/65 (RoHS)

NOTE:

The use of this typology of tube with continuous pulsating pressures can create heat accumulation, although it is particularly resistant to labour and tension flexions.

Polyurethane is generally resistant to ozone, oils, fats, fuels and moderate chemical solutions. In isn't resistant, or low resistant, to concentrate acids, ketons, esters, hydrocarbons, chloride.

Recommended for agriculture (pruning, olive downhearting).

STANDARD MARKING:

I TPU 5.5X8 POLYURETHANE SH.A 98 LOT.../.. H35 MADE IN ITALY
The marking is printed every 50cm. Customized marking on demand.



Polyurethane 98 ShA H35 calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock			Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm		CN	Y	R				
5,5	8	PUH558	CN006	Y001	R016	12	48	30	
7,5	10	PUH7510	CN015	Y012	R002	8,5	34	40	

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+ 23°C	+30°C	+40°C	+50°C	+60°C	+70°C
	Coefficient	x 1,87	x 1,4	x 1	x 0,84	x 0,70	x 0,60	x 0,52	x 0,47

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

PU-ALLOY™ CALIBRATED TUBES

Technical data sheet n.

67.1



PHISICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	DIN 53505 - ISO868	98 ShA / 52 ShD
Water absorption	a 23°C 50% r.h.	< 1.5%
Density	DIN 53479 - ISO1183	1,22 g/cm ³
Elongation at break	DIN53504 - ISO37	500%
Flexural elastic modulus	ASTMD 790	150 MPa
Abrasion loss	DIN 53516 - ISO4649	25 mm ³
Break resistance	DIN53504 - ISO37	55 MPa
Working temperature	-	- 40°C / +65°C

internal Ø	tolerance (mm)
5.5	± 0,2
7.5	± 0,3

external Ø	tolerance (mm)
8	± 0,1
10	± 0,15

TECHNICAL CHARACTERISTICS:

- very high flexibility also at low temperatures
- excellent elastic return
- low sensibility to "click" and "stress cracking" effect
- excellent resistance to abrasion
- good resistance to atmospheric agents
- good aging
- extremely resistant to fatigue
- good chemical resistance
- excellent resistance to cut and lubrication oil at low/medium temperature

NOTE: PU-ALLOY™ tubes are realized with advanced technology called "coex": the internal layer is realized in polyurethane, while the internal layer is realized with copolyester material resistant to oils, water and moderate chemical solutions.

Recommended for agriculture (pruning, olive downhearting).

The use of this typology of tube with continuous pulsating pressures can create heat accumulation, although it is particularly resistant to labour and tension flexions.

STANDARD MARKING:

I 5.5X8 PU-ALLOY SH.A 98 LOT...../.. MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



PU-ALLOY™ calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
4	6	PUAL46		BK005 B006	12.5	50	18
5.5	8	PUAL558	BK001 B002		12.5	50	30
7.5	10	PUAL7510	BK003 B004		9.5	38	40
9	12	PUAL912		BK007 B008	7	28	50

External BLACK / Internal RED and External BLUE / Internal RED



Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C
	Coefficient		x 1,87	x 1,4	x 1	x 0,90	x 0,80	x 0,70	x 0,60

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjoin the technical data in any moment without notify duty. This document has no contract value.



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	-	60/65 ShD
Water absorption	ISO 62 - a 23°C 50% r.h.	< 1%
Flexural modulus	ASTM D790	320 kg/cm ²
Elongation at break	ASTM D638	350%
Deflection temperature	ASTM D648	110°C
Working temperature	-	-30°C - +80°C

TECHNICAL CHARACTERISTICS:

- Excellent resistance to creep and impact
- Excellent properties at high temperatures
- Excellent stability to heat for long periods
- Excellent resistance to chemical agents, oils, solvents and atmospheric agents
- Stabilized UV

NORMS: the raw material used to produce these tubes is according to: D.M. 21/03/1973 and following modifying and integrations, Directive 2007/19/CE of Commission of 30/03/07, Reg. UE n. 10/2011 of Commission of 14/01/11, BgW recommendations

internal Ø	tolerance (mm)
4 - 7,5	± 0,2
8 - 10	± 0,3

external Ø	tolerance (mm)
6 - 8	± 0,1
10 - 12	± 0,15

STANDARD MARKING:

I COPEY™ PA SUPERFLEX Ø4X6 LOT.../.. MADE IN ITALY

I COPEY™ PA TRS Ø4X6 LOT.../.. MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



NEW 2015
New Translucid Colours

COPEY™ PA calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C						
Ø INT. mm	Ø EXT. mm												
2	4	COPE24	<table border="1"> <tr> <td>SB079</td> <td>BK080</td> </tr> <tr> <td>R082</td> <td>W060 <small>White</small></td> </tr> </table>	SB079	BK080	R082	W060 <small>White</small>	<table border="1"> <tr> <td>Y081</td> <td>G083</td> </tr> </table>	Y081	G083	30	120	15
SB079	BK080												
R082	W060 <small>White</small>												
Y081	G083												
2	4	COPE24	<table border="1"> <tr> <td>T076 <small>Transparent</small></td> <td>TSB078</td> </tr> </table>	T076 <small>Transparent</small>	TSB078	<table border="1"> <tr> <td>TR094</td> <td>TG096</td> <td>TY095</td> </tr> </table>	TR094	TG096	TY095	30	120	15	
T076 <small>Transparent</small>	TSB078												
TR094	TG096	TY095											
2,5	4	COPE254	<table border="1"> <tr> <td>SB032</td> <td>BK033</td> <td>W034 <small>White</small></td> </tr> <tr> <td>R035</td> <td>G036</td> <td>Y037</td> </tr> </table>	SB032	BK033	W034 <small>White</small>	R035	G036	Y037		22	88	20
SB032	BK033	W034 <small>White</small>											
R035	G036	Y037											
2,5	4	COPE254	<table border="1"> <tr> <td>GY055</td> </tr> </table>	GY055		22	88	20					
GY055													
2,5	4	COPE254	<table border="1"> <tr> <td>T062 <small>Transparent</small></td> </tr> </table>	T062 <small>Transparent</small>	<table border="1"> <tr> <td>TR097</td> <td>TG099</td> </tr> <tr> <td>TY098</td> <td>TSB063</td> </tr> </table>	TR097	TG099	TY098	TSB063	22	88	20	
T062 <small>Transparent</small>													
TR097	TG099												
TY098	TSB063												
2,7	4	COPE274	<table border="1"> <tr> <td>BK085</td> </tr> </table>	BK085		16	64	25					
BK085													
2,7	4	COPE274	<table border="1"> <tr> <td>T086 <small>Transparent</small></td> </tr> </table>	T086 <small>Transparent</small>	<table border="1"> <tr> <td>TR101</td> <td>TG103</td> </tr> <tr> <td>TY102</td> <td>TSB100</td> </tr> </table>	TR101	TG103	TY102	TSB100	16	64	25	
T086 <small>Transparent</small>													
TR101	TG103												
TY102	TSB100												

To be continue →

Dimensioni Sizes		Root of he code	STANDARD colours in stock			Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C		
Ø INT. mm	Ø EXT. mm		SB	BK	W						
4	6	COPE46	SB001	BK002	W022		16	64	35		
			R038	G039	Y040						
4	6	COPE46	GY056			16	64	35			
4	6	COPE46	T064 <small>Transparent</small>	TSB065		TR104	TG106	TY105	16	64	35
6	8	COPE68	SB004	BK005	W023		15	60	40		
			R041	G042	Y043						
6	8	COPE68	GY057			15	60	40			
6	8	COPE68	T066 <small>Transparent</small>	TSB067		TR107	TG109	TY108	15	60	40
7	10	COPE710				T077 <small>Transparent</small>			17	70	50
8	10	COPE810	SB007	BK008	W024		14	56	55		
			R044	G045	Y014						
8	10	COPE810	GY058			14	56	55			
8	10	COPE810	T068 <small>Transparent</small>	TSB069		TR110	TG112	TY111	14	56	55
9	12	COPE912	SB026	BK027	W025	G047	13	50	80		
			R046	Y048							
9	12	COPE912	T070 <small>Transparent</small>			TR113	TG115	13	50	80	
						TY114	TSB071				
10	12	COPE1012	SB010	BK011	W031		10	40	80		
			R049	G050	Y051						
10	12	COPE1012	GY059			10	40	80			
10	12	COPE1012	T072 <small>Transparent</small>	TSB073		TR116	TG118	TY117	10	40	80
11	14	COPE1114	SB030	BK029	W028		10	40	80		
			R052	Y054	G053						
11	14	COPE1114	T074 <small>Transparent</small>			TR119	TG121	10	40	80	
						TY120	TSB075				
12	16	COPE1216	BK088			14	56	100			

Available also in 25m boxes - 100m FAST FLY™ boxes - FAST FLY™ BOX with 4 reels of 25m

<i>Correction value scale for working pressure in consideration of the temperature variation</i>	Temperature	-30°C	0°C	+23°C	+40°C	+60°C	+80°C
	Coefficient	x 2	x 1,5	x 1	x 0,90	x 0,85	x 0,8

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	-	65/70 ShD
Water absorption	ISO 62 - a 23°C 50% r.h.	< 1%
Flexural modulus	ISO 178	450 MPa
Elongation at break	ASTM D638	>350%
Deflection temperature	-	110°C
Working temperature	-	-30°C - +80°C

internal Ø	tolerance (mm)
4 - 7,5	± 0,2
8 - 10	± 0,3

external Ø	tolerance (mm)
6 - 8	± 0,1
10 - 12	± 0,15

TECHNICAL CHARACTERISTICS:

- Excellent creep and impact resistance
- Excellent properties at high temperatures
- Excellent stability at heat for long periods
- Excellent resistance to chemical agents, oils, solvents and atmospheric agents
- UV stabilized

STANDARD MARKING:

I COPEY™ PA MP Ø12.5X15 LOT.../.. MADE IN ITALY

I COPEY™ PA MP TRS Ø12.5X15 LOT.../.. MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



COPEY™ PA MP calibrated tubes - 50m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C				
Ø INT. mm	Ø EXT. mm										
12.5	15	COPEMP12515	<table border="1"> <tr> <td>W003 <small>White</small></td> <td>BK004</td> </tr> <tr> <td>R007</td> <td>SB008</td> </tr> </table>	W003 <small>White</small>	BK004	R007	SB008		16	48	150
W003 <small>White</small>	BK004										
R007	SB008										
12.5	15	COPEMP12515	<table border="1"> <tr> <td>T010 <small>Transparent</small></td> <td></td> </tr> </table>	T010 <small>Transparent</small>		<table border="1"> <tr> <td>TSB011</td> </tr> </table>	TSB011	16	48	150	
T010 <small>Transparent</small>											
TSB011											
13	16	COPEMP1316	<table border="1"> <tr> <td>W001 <small>White</small></td> <td>BK002</td> </tr> </table>	W001 <small>White</small>	BK002		16	50	150		
W001 <small>White</small>	BK002										
13	16	COPEMP1316	<table border="1"> <tr> <td>T012 <small>Transparent</small></td> <td></td> </tr> </table>	T012 <small>Transparent</small>		<table border="1"> <tr> <td>TSB013</td> </tr> </table>	TSB013	16	50	150	
T012 <small>Transparent</small>											
TSB013											
14	16	COPEMP1416	<table border="1"> <tr> <td>W005 <small>White</small></td> <td>BK006</td> </tr> <tr> <td>SB009</td> <td></td> </tr> </table>	W005 <small>White</small>	BK006	SB009			19	58	200
W005 <small>White</small>	BK006										
SB009											
14	16	COPEMP1416	<table border="1"> <tr> <td>T014 <small>Transparent</small></td> <td></td> </tr> </table>	T014 <small>Transparent</small>		<table border="1"> <tr> <td>TSB015</td> </tr> </table>	TSB015	19	58	200	
T014 <small>Transparent</small>											
TSB015											

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-30°C	0°C	+ 23°C	+40°C	+60°C	+80°C
	Coefficient	x 2	x 1,5	x 1	x 0,90	x 0,85	x 0,80

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	ISO 868	65 ShD
Water absorption	a 23°C 50% r.h.	< 3%
Density	ISO 1183	1 g/cm ³
Elongation at break	ISO 527	> 300%
Flexural elastic modulus	ISO 527	350 MPa
Recommended working temperature	-	- 20°C / +80°C
Maximum continuous working temperature	ISO 2578	+80°C
Maximum working temperature for short periods	ISO 2578	+100°C
Maximum working temperature for very short periods	ISO 2578	+120°C

internal Ø	tolerance (mm)
1,5 - 7,5	± 0,2
8 - 22	± 0,3

external Ø	tolerance (mm)
3 - 8	± 0,1
10 - 25	± 0,15

TECHNICAL CHARACTERISTICS:
 - high mechanical properties to traction and continuous and alternated flexion
 - good flexibility
 - limited stability to heat
 - stabilized to impact
 - high resistance to aging
 - low water absorption
 - high resistance to hydrocarbon and oils
 - good inertness to chemical agents

STANDARD MARKING:

1 PA-ALLOY 12.6 Ø4X6 LOT...../.. MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



PA-ALLOY 12.6™ calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PAAL24	T024 BK021 SB022		44	130	15
4	6	PAAL46	T017 BK006 SB006		27	82	30
6	8	PAAL68	T018 BK008 SB009		20	60	40
8	10	PAAL810	T019 BK011 SB012		16	50	60
10	12	PAAL1012	T020 BK014 SB015		13	40	85

These tubes are available also in 100m FAST FLY™ boxes

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+ 23°C	+30°C	+40°C	+50°C	+60°C	+70°C	+80°C
	Coefficient	x 1,87	x 1,4	x 1	x 0,95	x 0,90	x 0,85	x 0,80	x 0,75	x 0,70

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

POLYAMIDE NYLON "PA6 MT" CALIBRATED TUBES

Technical data sheet n.

5.2



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	DRY	VALUE (2.4 H ₂ O)
Traction elastic modulus	ASTM D638	29 MPa	17 MPa
Elongation	ASTM D638	> 300%	> 300%
Resistance to flexion	ASTM D790	24 MPa	14 MPa
Flexural elastic modulus	ASTMD 790	600 MPa	300 MPa
Melting point	ISO 11357	220°C	
Water absorption	a 23°C 50% r.h.		< 3%
Working temperature	-		-20°C / +80°C

internal Ø	tolerance (mm)
2 - 7,5	± 0,2
8 - 10	± 0,3

external Ø	tolerance (mm)
4 - 8	± 0,1
10 - 12	± 0,15

TECHNICAL CHARACTERISTICS:

- high mechanical properties to continuous and alternated traction
- limited flexibility
- limited heat stability
- low water absorption
- high resistance to hydrocarbons and oils
- good innerness to chemical agents

NORMS: the raw material used to produce these tubes is according to:
ISO 1874, DIN 73378

STANDARD MARKING:

1 NYLON PA6 MT Ø4x6 LOT...../.. DIN 73 378 MADE IN ITALY
The marking is printed every 50cm. Customized marking on demand.



NYLON PA6 MT calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PA624	BK020 N022	SB021	55	165	25
2,5	4	PA6254	N025		36	110	25
4	6	PA646	BK010 N002 SB011		27	81	60
6	8	PA668	BK012 N014	SB013	20	60	100
8	10	PA6810	BK015 N017	SB026	15	45	150
8	12	PA6812	N047		24	72	150
10	12	PA61012	BK018 N009	SB019	13	39	200

NYLON PA6 MT calibrated tubes - 50m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
12.5	15	PA612515	BK051 N052	SB053	18	55	300

Correction value scale for working pressure in consideration of the temperature variation

Temperature	-20°C	0°C	+ 23°C	+30°C	+40°C	+50°C	+60°C
Coefficient	x 1,87	x 1,4	x 1	x 0,90	x 0,80	x 0,70	x 0,70

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Density	ISO 1183	1,05 g/cm ³
Melting point	ISO 11357	175-185 °C
Water absorption	ISO 62 - a 23°C 50% r.h.	< 1%
Elongation at break	ISO 527	300 %
Flexural elastic modulus	ISO 178	350 MPa
Impact force	ISO 179 (Test type1)	4 KJ.m ⁻²
Abrasion resistance	ISO 9352	25 mg
Hardness	ISO 868	63 ShD
Vicat point	ISO 306	140°C
Flame resistance	ASTM D 635	320 s > 100 mm
Volume resistivity(at 20°C under direct current 500V)	CEI 93	10 ¹¹ Ω.m
Surface resistivity	CEI 93	5.10 ¹¹ Ω.m
Dielectric force(piece testede 1 mm dry)	IEC 60243 -1	23 KV.mm ⁻¹
Working temperature	-	-40°C/+80°C

internal Ø	tolerance (mm)
2 - 7,5	± 0,2
8 - 12,5	± 0,3
external Ø	tolerance (mm)
4 - 8	± 0,1
10 - 15	± 0,15

TECHNICAL CHARACTERISTICS:

- high mechanical properties
- good dielectric properties
- excellent tear resistance
- low water absorption
- excellent resistance to pressure
- excellent stability to high temperatures
- notable resistance to aging
- good resistance to hydrocarbon & oils
- high resistance to extreme weather

- conditions
- high impact resistance at temperatures lower than 0°C
- high resistance to attack by most chemical agents

NORMS: the raw material used to produce these tubes is according to:
ISO 1874 - DIN 74324 - Directive EEC 2011/65 (RoHS)

STANDARD MARKING:

I RILSAN PA11 Ø4X6 LOT.../. DIN 74 324 MADE IN ITALY
The marking is printed every 50cm. Customized marking on demand.



Polyamide Rilsan PA11 calibrated tubes - 100m reels

Dimensioni Sizes	Ø INT. mm	Ø EXT. mm	Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
2	4	PA1124	SB054 N006	Y052 B020	G036 BK044 R053	44	132	15
2,5	4	PA11254	SB041 N022		G059 BK057 Y055 B058 R056	35	106	20
2,7	4	PA11274	B029 N030	R061	Y060 SB063 G064 BK062	26	78	25
3	5	PA1135	N086			33	100	25
4	6	PA1146	N004 B010	SB007 BK028 R014	Y065 G033	28	84	35
5	8	PA1158	N031 BK066		G069 B045 Y068 SB067 R070	30	90	40
6	8	PA1168	N001 BK017	SB008 B009 R026	G042 Y043	20	60	40

To be continue →

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
6	10	PA11610		BK021	32	96	60
7	10	PA11710	N038	SB071 Y074 R073 BK072 B076 G075	29	87	50
8	10	PA11810	N002 B011 SB015	G036 R034 Y077 BK019	15	45	60
8	12	PA11812		N039	28	78	60
9	12	PA11912	N078 BK084	SB079 Y080 R081 B083 G082	20	60	80
10	12	PA111012	N003 BK018 SB016	R037 Y046 G035 B012	13	39	80
12	14	PA111214	N025 B047	Y048 R049 BK027 G050 SB023	10	31	90

Polyamide Rilsan PA11 calibrated tubes - 50m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
12,5	15	PA1112515	N006	SB024 BK051 R085	12	36	150
12	16	PA111216	N040 G095 Y096 R094		18	54	120

These tubes are available also in 25m boxes

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C	+80°C
	Coefficient		x 1,87	x 1,4	x 1	x 0,90	x 0,80	x 0,70	x 0,60	x 0,55

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



internal Ø	tolerance (mm)
1,5 - 7,5	± 0,2
8 - 22	± 0,3
external Ø	tolerance (mm)
3 - 8	± 0,1
10 - 25	± 0,15

PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	ASTM D2240	63 ShD
Water absorption	a 23°C 50% r.h.	< 1%
Density	ASTM D792	1,03 g/cm ³
Elongation at break	ASTM D638	> 350%
Flexural elastic modulus	ASTM D790	330 MPa
Working temperature	-	- 40°C / +70°C

TECHNICAL CHARACTERISTICS:

- PA11 tubes type PHL
- high mechanical properties to traction and to continuous & alternate flexion
- high flexibility
- good heat stability
- remarkable resistance to aging
- low water absorption
- remarkable resistance to hydrocarbons and oils and good inertness to chemical agents

NORMS: The raw material used to produce these tubes are according to:
DIN 73378

STANDARD MARKING:

1 PA11 PHL Ø 4X6 LOT.../. DIN 73 378 MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



Polyamide PA11 PHL calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PA11HL24	N001		43	130	15
2,5	4	PA11HL254	N002		34	104	20
4	6	PA11HL46	N003		27	82	35
6	8	PA11HL68	N004		19	58	40
8	10	PA11HL810	N005		14	44	60
10	12	PA11HL1012	N006		12	36	80

Polyamide PA11 PHL calibrated tubes - 50m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
12,5	15	PA11HL12515	N007		11	34	150

<u>Correction value scale for working pressure in consideration of the temperature variation</u>	Temperature	-20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C	+80°C
	Coefficient	x 1,87	x 1,4	x 1	x 0,90	x 0,80	x 0,70	x 0,60	x 0,55	x 0,50

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

POLYAMIDE RILSAN PA12 CALIBRATED TUBES

Technical data sheet n.

7.1



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	ASTM D2240	65 ShD
Water absorption	a 23°C 50% r.h.	< 1%
Density	ASTM D792	1,03 g/cm ³
Elongation at break	ASTM D638	> 300%
Flexural elastic modulus	ASTM D790	410 MPa
Working temperature	-	- 30°C / +70°C

TECHNICAL CHARACTERISTICS:

- high mechanical properties to traction and to continuous & alternate flexion
- high flexibility
- good heat stability
- remarkable resistance to aging
- low water absorption
- remarkable resistance to hydrocarbons and oils and good inertness to chemical agents

NORMS: the raw material used to produce these tubes is according to:
- ISO 1874 - DIN 73378

STANDARD MARKING:
I RILSAN PA12 Ø4X6 LOT.../. DIN 73 378 MADE IN ITALY
The marking is printed every 50cm. Customized marking on demand.

internal Ø	tolerance (mm)
1,5 - 7,5	± 0,2
8 - 22	± 0,3

external Ø	tolerance (mm)
3 - 8	± 0,1
10 - 25	± 0,15



Polyamide RILSAN PA12 calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
1,5	3	PA153	SB059 N139		44	132	15
2	3	PA23	BK110 N035		33	100	15
2	4	PA24	SB038 N024 Y109 BK034 G100 B078	R050	44	130	15
2,5	4	PA254	SB008 N001 Y062 R007 BK006 B064 G063		36	108	20
2,5	4	PA254		GY086	36	108	20
2,7	4	PA274	SB042 N025 Y041 R057 BK060 B067 G089 O093		26	78	25
3	5	PA35	N135 SB156 BK070	B076	32	96	30
4	6	PA46	N002 SB011 R010 M124 BK009 B046 G021	Y026	27	81	40
4	6	PA46	GY087		27	81	40

To be continue →

Dimensioni Sizes		Root of the code	STANDARD colours in stock						Colours realizable ON DEMAND					Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C	
∅ INT. mm	∅ EXT. mm																
6	8	PA68	N003	G023	BK012	SB014	B047	R013		Y022					20	60	50
6	8	PA68	GY088											20	60	50	
7	10	PA710	N102	BK061					Y146	R148	SB144	B145	G147	25	75	50	
8	10	PA810	SB017	N004	BK015	R016			G049	Y040	B045			15	45	60	
8	10	PA810							GY081					15	45	60	
8	12	PA812	N101	Y116	B150	BK118	R117							24	72	60	
9	12	PA912	Y126	N153	R127	B154			G152	SB125	BK092			20	60	80	
10	12	PA1012	N005	R019	BK018	SB020			Y065	B048	G066			12	36	85	
11	14	PA1114	N163											13	39	85	
12	14	PA1214	G114	N027	BK031	R094	SB058							11	33	90	
12	14	PA1214	GY082											11	33	90	

Polyamide RILSAN PA12 calibrated tubes - 50m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock						Colours realizable ON DEMAND					Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
∅ INT. mm	∅ EXT. mm															
12	15	PA1215	BK162											15	45	90
12	16	PA1216	N103											19	57	100
12,5	15	PA12515	N051	R123	BK043	G143			SB075	B137				12	36	160
13	15	PA1315	B056	BK120										10	30	160
14	16	PA1416	N032						SB143	BK122				10	30	220
15	18	PA1518	N132											12	36	250
16	20	PA1620							N108					17	51	250
18	20	PA1820	N136											9	27	300
18	22	PA1822	BK044	N161										13	40	350
22	25	PA2225	N134											8	24	400

These tubes are available also in 25m boxes

<i>Correction value scale for working pressure in consideration of the temperature variation</i>	Temperature	-20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C
	Coefficient	x 1,87	x 1,4	x 1	x 0,90	x 0,80	x 0,70	x 0,60

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	ASTM D2240	63 ShD
Water absorption	a 23°C 50% r.h.	< 1%
Density	ASTM D792	1,03 g/cm ³
Elongation at break	ASTM D638	> 350%
Flexural elastic modulus	ASTM D790	350 MPa
Working temperature	-	- 40°C / +70°C

internal Ø	tolerance (mm)
1,5 - 7,5	± 0,2
8 - 22	± 0,3

external Ø	tolerance (mm)
3 - 8	± 0,1
10 - 25	± 0,15

TECHNICAL CHARACTERISTICS:

- PA12 tubes type **PHL**
- high mechanical properties to traction and to continuous & alternate flexion
- high flexibility
- good heat stability
- remarkable resistance to aging
- low water absorption
- remarkable resistance to hydrocarbons and oils and good inertness to chemical agents

NORMS: The raw material used to produce these tubes are according to:
DIN 73378

STANDARD MARKING:

I PA12 PHL Ø4X6 LOT.../.. DIN 73 378 MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



Polyamide PA12 PHL calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PAHL24	BK019 N020 B021		42	126	15
2,5	4	PAHL254	BK016 N015 B022		30	92	20
4	6	PAHL46	BK002 N001 B023		25	76	35
6	8	PAHL68	BK004 N003 B024		18	56	40
8	10	PAHL810	BK006 N005 B025		14	42	55
10	12	PAHL1012	BK008 N007 B026		12	36	80

Polyamide PA12 PHL calibrated tubes - 50m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
12,5	15	PAHL12515	BK027 N028 B029		12	36	140

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+ 23°C	+30°C	+40°C	+50°C	+60°C
	Coefficient		x 1,87	x 1,4	x 1	x 0,90	x 0,80	x 0,70

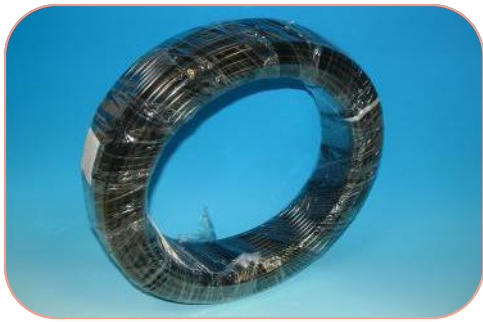
In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

POLYAMIDE PA12 TRUCK CALIBRATED TUBES

(for pneumatic circuits for aribrake systems)

Technical data sheet n.

61.1



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	ASTM D2240	70 ShD
Water absorption	a 23°C 50% r.h.	< 1%
Density	ASTM D792	1,03 g/cm ³
Elongation at break	ASTM D638	> 300%
Flexural elastic modulus	ASTM D790	450 MPa
Working temperature	-	- 60°C / +80°C

internal Ø	tolerance (mm)
1,5 - 7,5	± 0,2
8 - 22	± 0,3

external Ø	tolerance (mm)
3 - 8	± 0,1
10 - 25	± 0,15

TECHNICAL CHARACTERISTICS:

- excellent heat stability
- excellent cold stability
- stability to UV ray (carbon black)
- good flexibility
- low water absorption

NORMS:

the raw material used to produce these tubes is according to: DIN 73378

STANDARD MARKING:

1 PA12 TRUCK Ø4X6 LOT../. DIN 73 378 MADE IN ITALY The marking is printed every 50cm. Customized marking on demand.



Polyamide PA12 TRUCK calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PATR24	BK001		50	150	20
4	6	PATR46	BK002		30	90	50
6	8	PATR68	BK003		21	65	80
7	10	PATR710	BK010		26	78	60
8	10	PATR810	BK004		17	50	90
9	12	PATR912	BK005		21	65	100

Polyamide PA12 TRUCK calibrated tubes - 50m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
12	15	PATR1215	BK006		17	51	130
13	16	PATR1316	BK007		15	45	150
14	18	PATR1418	BK008		17	52	200
16	20	PATR1620	BK009		16	48	250

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-60°C	-40°C	-20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C	+70°C	+80°
	Coefficient	x 3	x 2,5	x 1,87	x 1,4	x 1	x 0,95	x 0,90	x 0,85	x 0,80	x 0,75	x 0,70

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	ASTM D2240	72 ShD
Water absorption	a 23°C 50% r.h.	< 1%
Density	ASTM D792	1,02 g/cm ³
Elongation at break	ASTM D638	> 300%
Flexural elastic modulus	ASTM D790	1430 MPa
Working temperature	-	- 30°C / +70°C

internal Ø	tolerance (mm)
2 - 7,5	± 0,2

external Ø	tolerance (mm)
4 - 8	± 0,1

TECHNICAL CHARACTERISTICS:

- high mechanical properties to traction and flexion
- medium flexibility
- good stability to heat
- remarkable resistance to heating
- low water absorption
- remarkable resistance to hydrocarbons and oils and good inertness to chemical resistance and lubricants
- specific for forced lubrication system

NORMS: the raw material used to produce these tubes is according to:
ISO 1874 - DIN 73378

STANDARD MARKING:

1 PA12 HP Ø3X6 LOT./../DIN 73 378 MADE IN ITALY The marking is printed every 50cm. Customized marking on demand.



Polyamide PA12 HP calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PAHP24	N001	SB003 BK002	93	280	25
2,5	4	PAHP254	N004	SB006 BK005	64	192	30
3	6	PAHP36	BK008 N007 G013 Y014	SB009	94	284	35
4	8	PAHP48	BK091		90	270	60
5	9,54	PAHP5954	BK104		90	270	80

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+ 23°C	+30°C	+40°C	+50°C	+60°C
	Coefficient	x 1,87	x 1,4	x 1	x 0,95	x 0,90	x 0,80	x 0,70

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

PTFE (TEFLON) WITH DOUBLE CALIBRATION TUBES

Technical data sheet n.

9.1



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Hardness	-	55 ShD
Strength resistance	ASTM D638	> 20 Mpa
Elongation at break	ASTM D638	> 200%
(140 Kg/cm ² per 24h a 23°C)	ASTM D621	9,5 - 11,0 %
Working temperature	-	- 60°C / +260°C

TECHNICAL CHARACTERISTICS:

- very good for the conduction of paint, oils, water, air, fluid water based in general and vapour
- very good for food substance passage
- very good for passage of oxygen and saturated vapour in pressure

NORMS: the raw material used to produce these tubes is according to:

- US Regulation - FDA 21CFR section 177.1550 and 21CFR section 178.3297
- European Regulation EC1935/2004 and UE10/2011
- Directive EEC 2011/65 (RoHS)
- WRAS approval

internal Ø	tolerance (mm)
2 - 4	± 0,20
6 - 10	± 0,25
12 - 14	± 0,35

external Ø	tolerance (mm)
4	± 0,20
6 - 10	± 0,25
12 - 16	± 0,35



PTFE (Teflon) tubes with double calibration - **50m reels**

Dimensioni Sizes		Root of the code	a magazzino STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2	4	PTFE24		N001	27	81	20
4	6	PTFE46	N002		18	54	30
6	8	PTFE68	N003		14	42	40
8	10	PTFE810	N004		12	36	50
10	12	PTFE1012		N006	10	30	85

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-60 / +40°C	+40 / +100°C	+100 / +150°C	+150 / +200°C	+200 / +260°C
	Coefficient	x 1	x 0,8	x 0,6	x 0,2	x 0,1

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medifly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.

PVDF (KNAR -FLÆ) CALIBRATED TUBES

Technical data sheet n.

23.1



PHYSICAL/MECHANICAL PROPERTIES	TRIAL METHOD	VALUE
Density	ISO 1183	1,78 g/cm ³
Water absorption	ISO 62 - a 23°C 50% r.h.	< 0,05 %
Melting point	ISO 3416C	140°C
Hardness	ASTM D - 2240	68 ShD
Elongation at break	ASTM D - 638	600-750 %
Flexural elastic modulus	ASTM D - 638	650 MPa
Working temperature	-	-20°C /+100°C

TECHNICAL CHARACTERISTICS :

PVDF free of any additive, has the typical intrinsic stability of the fluoropolymer, when it is exposed to hard environment conditions. It supplies to the user a unique combination of properties that gives longer life to the tools. The most important properties of PVDF are listed below: excellent chemical resistance to the more aggressive substances and solvents, excellent mechanical strength and hardness, high abrasion resistance, high temperature capacity, excellent aging resistance, high purity, resistance to UV and nuclear radiations, excellent resistance to fire, resistance to the environments agents, low permeability to gas and liquids.

internal Ø	tolerance (mm)
2,5 - 7,5	± 0,2
8 - 10	± 0,3

external Ø	tolerance (mm)
4 - 8	± 0,1
10 - 12	± 0,15

APPLICATIONS :

Particularly indicated to realize pneumatic tubes, electronic, robotic, tools, industrial machines, etc.. that means that when there is the need of chemical resistance and thermo-mechanic properties (industrial and generic industries), quality of surface and low extraction value (market of semi-conduction with high purity), resistance to fire and maximum smoke emission (industry of coat cable).

NORMS :

the raw material used to produce these tubes is according to: FDA 177.1520, 177.2600, DM del 21.03.73, Reg UE10/2011

STANDARD MARKING :

1 Ø4X6 PVDF FOOD GRADE LOT.../... MADE IN ITALY

The marking is printed every 50cm. Customized marking on demand.



PVDF calibrated tubes - 100m reels

Dimensioni Sizes		Root of the code	STANDARD colours in stock	Colours realizable ON DEMAND	Working Pressure (Bar) 23°C	Bursting pressure (Bar) 23°C	Bending ray (mm) 23°C
Ø INT. mm	Ø EXT. mm						
2,5	4	PVDF254	N01		20	80	20
4	6	PVDF46	N02		16	64	30
6	8	PVDF68	N03		15	60	40
7,5	10	PVDF7510	N04		20	80	60
10	12	PVDF1012		N06	15	45	100

Correction value scale for working pressure in consideration of the temperature variation	Temperature	-20°C	0°C	+23°C	+30°C	+40°C	+50°C	+60°C
	Coefficient	x 1,87	x 1,4	x 1	x 0,90	x 0,80	x 0,70	x 0,60

In the application choice the user must keep in mind the different use variables (pressure, temperature, environment conditions) and all the things that can interfere with the application. These information must be considered only as general indication. The validation of the application is always at the user charge. Medfly keeps the right to modify or adjourn the technical data in any moment without notify duty. This document has no contract value.



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