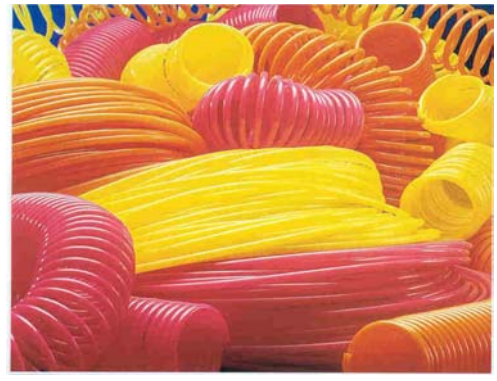
Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

MAZZER INDUSTRIES, INC.

MAZZER NYLON TUBING 11/12

THE MOST UNIVERSAL OF ALL THERMOPLASTIC TUBING

This formulation for flexible premium tubing is the standard for both general, industrial and automotive applications. Its broad temperature range (-60 F., to +200 F. continuous) combined with light weight, long fatigue resistance, dimensional stability, excellent abrasion resistance, low moisture absorption and flexibility, make it the most universal of all thermoplastic tubing



APPLICATIONS :
- Pneumatics
- Hydraulic
- Vacuum
- Fresh & Salt Water
- General Chemicals
- Gasses
- Machine Tools
- Petrochemicals
- Coolant
- Fuel
- Oils
- Lubricants

HARDNESS : 72 SHORE D (ASTM D 785)

MAZZER TUBING CHEMICAL COMPATIBILITY CHART

The information given in this chart should be used as a guide only. Our laboratory testing does not take into consideration possible variations of conditions during effective service.

Acetate Solvents	**Excellent**	**Diesel Fuel**	**Excellent**	Moisture	Limited
Acetic Acid (10%)	Limited	Ethanol	Limited	**Naphtha**	**Excellent**
Acetone	**Excellent**	**Ether**	**Excellent**	**Natural Gas**	**Excellent**
Acetylene	**Excellent**	**Ethyl Alcohol**	**Excellent**	**Nickel Chloride**	**Excellent**
Alum	**Excellent**	Ethyl Acetate	Limited	Nitric Acid	Unsuitable
Aluminum Chloride	**Excellent**	**Ethyl Chloride**	**Excellent**	**Nitrogen**	**Excellent**
Ammonia Gas	**Excellent**	**Formaldehyde**	**Excellent**	**Oleic Acid**	**Excellent**
Ammonia Liquid	Limited	Formic Acid	Limited	**Oxygen (cold)**	**Excellent**
Ammonium Chloride	**Excellent**	**Freon 12-22-502**	**Excellent**	**Ozone (cold)**	**Excellent**
Ammonium Nitrate	**Excellent**	**Gas Oil**	**Excellent**	**Paints**	**Excellent**
Amyl acetate	Limited	**Gasoline**	**Excellent**	**Petroleum (Raw)**	**Excellent**
Barium Chloride	**Excellent**	**Glucose**	**Excellent**	Phenol	Unsuitable
Benzene Chloride	Unsuitable	**Glycerin**	**Excellent**	**Potassium Chloride**	**Excellent**
Benzine (Benzol)	Limited	**Glycol**	**Excellent**	**Potassium Cyanide**	**Excellent**
Borax	**Excellent**	**Hydraulic Oil**	**Excellent**	**Propane**	**Excellent**
Boric Acid	Limited	**Hydrogen**	**Excellent**	**Sodium Bisulphate**	**Excellent**
Butane	**Excellent**	**Hydrogen**	**Excellent**	**Sodium Chloride**	**Excellent**
Butilic Alcohol	**Excellent**	**Iron Cholrine**	**Excellent**	**Sodium Nitrate**	**Excellent**
Butyl Acetate	**Excellent**	**Kerosene**	**Excellent**	**Sulphides**	**Excellent**
Calcium Hydroxide	**Excellent**	**Lactid Acid**	**Excellent**	Sulphuric Chloride	Unsuitable
Carbonic Acid	**Excellent**	**LPG (Liquid Gas)**	**Excellent**	**Sulphuric Hydrogen**	**Excellent**
Carbonic Dioxide	**Excellent**	**Lubricating Oils**	**Excellent**	**Toluene (Toluol)**	**Excellent**
Carbonic Oxide	**Excellent**	**Magnesium Chloride**	**Excellent**	Trichlorethylene	Limited
Chloro Gas	Unsuitable	**Mercuric Cholride**	**Excellent**	**Xilene**	**Excellent**
Chromic Acid	Unsuitable	**Mercury**	**Excellent**	**Zinc Chloride**	**Excellent**
Citric acid	**Excellent**	Methylic	Limited		
Cyanide	**Excellent**	**Mineral Oil**	**Excellent**		

http://mdmetric.com
copyright 2003 maryland metrics/mazzer

Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

NYLON 11/12 straight tubing SIZE CHART

INCHES

REF. SIZE	O.D. NOM. IN.	I.D. NOM. IN.	WALL THICKNESS NOM.IN.	MIN. BEND RADIUS ++ IN.	O.D. TOL. IN.	I.D. TOL. IN.	MIN.BURST *** PRESSURE PSI @ 75 F	MAZZER COIL LENGTH
N11 2	**1/8**	**.080**	.023	.70	+.002 -.0045	+/- .004	1 000	100, 500, 1 000 ft.*
N11 2.5	**5/32**	**.106**	.025	.94	+.002 -.0045	+/- .004	1 000	100, 500, 1 000 ft.*
N11 3	**3/16**	**.118**	.035	1.1	+.002 -.0055	+/- .004	1 000	100, 500, 1 000 ft.*
N11 4	**1/4**	**.180**	.035	1.5	+.002 -.0055	+/- .004	1 000	100, 500, 1 000 ft.+
N11 417***	**1/4**	**.170**	.040	1.5	+.002 -.0055	+/- .004	1 200	100, 500, 1 000 ft.+
N11 462	**1/4**	**.126**	.062	1.5	+.002 -.0055	+/- .004	2 000	100, 500, 1 000 ft.+
N11 5	**5/16**	**.233**	.040	1.85	+.002 -.0055	+/- .004	1 000	100, 500, 1 000 ft.+
N11 6	**3/8**	**.275**	.050	2.25	+.002 -.0055	+/- .004	1 000	100, 500, 1 000 ft.
N11 8	**1/2**	**.375**	.062	3	+.002 -.0055	+/- .004	1 000	100, 500 ft.
N11 10	**5/8**	**.500**	.062	3.75	+/- .004	+/- .004	600	100 ft.
N11 12	**3/4**	**.560**	.095	4.5	+/- .004	+/- .004	790	100 ft.
N11 16	**1**	**.750**	.125	6	+/- .006	+/- .006	790	100 ft.

***DOT approved tubing
* Reels available up to 5 000 ft.
+ Reels available up to 2 000 ft.

METRIC

REF. SIZE	O.D. NOM. MM.	I.D. NOM. MM.	WALL THICKNESS NON.MM.	MIN. BEND RADIUS ++ MM.	O.D. TOL. MM.	I.D. TOL. MM.	MIN.BURST *** PRESSURE bar/psi @ 75 F	MAZZER COIL LENGTH
N11 0427	**4**	**2.7**	.65	24	+.05 -.1	+/- .1	75/1 086	25, 150, 300 meters*
N11 0402	**4**	**2**	1	24	+.05 -.1	+/- .1	134/1 956	25, 150, 300 meters*
N11 0533	**5**	**3.3**	.85	30	+.05 -.1	+/- .1	70/1 015	25, 150, 300 meters*
N11 0604	**6**	**4**	1	36	+.05 -.1	+/- .1	85 /1 233	25, 150, 300 meters
N11 0806	**8**	**6**	1	48	+.05 -.1	+/- .1	58/841	25, 150, 300 meters+
N11 0855	**8**	**5.5**	1.25	50	+.05 -.1	+/- .1	74 /1 073	25, 150, 300 meters+
N11 1008	**10**	**8**	1	60	+.05 -.1	+/- .1	42 /609	25, 150, 300 meters+
N11 1075	**10**	**7.5**	1.25	70	+.05 -.1	+/- .1	57 /827	25, 150, 300 meters+
N11 1210	**12**	**10**	1	75	+.05 -.1	+/- .1	32/464	25, 150, 300 meters+
N11 1209	**12**	**9**	1.5	84	+.05 -.1	+/- .1	63/914	25, 150, 300 meters+
N11 1412	**14**	**12**	1	98	+.05 -.1	+/- .1	27 /392	25 meters
N11 1512	**15**	**12**	1.5	105	+/- .1	+/- .1	48/696	25 meters
N11 1613	**16**	**13**	1.5	112	+/- .1	+/- .1	44/638	25 meters

* Reels available up to 1 500 meters
+ Reels available in 500 meters

Conversions:

1" corresponds to 25.41 MM (millimeters) 1 bar corresponds to 14.5 psi

To convert Fahrenheit to Celsius subtract 32 from Fahrenheit, divide by 9 and multiply by 5

To convert Celsius to Fahrenheit divide Celsius by 5, multiply by 9 and add 32

++ Specified minimum bend radius is for minimal tube flattening.

*** The safety factor adopted set the minimum bursting pressure at four (4) times the working pressure. Please, always remember that the bursting and working pressure data listed are determined at 75 degrees+B136 F (24 Celsius)

Colors (insert appropriate letter when ordering):

N Natural **B** Black **R** Red **BU** Blue **G** Green **Y** Yellow **OR** Orange **GY** Gray

copyright 2003 maryland metrics/mazzer

Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

MAZZER INDUSTRIES, INC.

MAZZER POLYETHYLENE TUBING

ECONOMIC LINEAR LOW DENSITY P.E. FOR LOWER TEMPERATURE AND PRESSURE

Mazzer quality brings this, the first practical thermoplastic resin for industrial tubing , to a new precise standard for today's applications. Broad chemical, solvent, and corrosive atmospherical resistance with good dimensional stability makes polyethylene suitable for many general applications. Temperature range (-100 F. + 175 F.) is combined with light weight and medium flexibility.
Low price combined with the best resins and Mazzer dimensional accuracy makes this an outstanding value.

- Vermin and Fungus proof
-Low cost
-Dimensional stability
-Broad range of corrosion resistance and chemical compatibility

APPLICATIONS :
- Instrumentations
- Food processing
- Corrosive atmosphere environments
- General low pressure & temperature applications

HARDNESS : 46 SHORE D (ASTM D 785)

MAZZER TUBING CHEMICAL COMPATIBILITY CHART

The information given in this chart should be used as a guide only. Our laboratory testing does not take into consideration possible variations of conditions during effective service.

Acetate Solvents	Limited	**Diesel Fuel**	**Excellent**	**Moisture**	**Excellent**
Acetic Acid (10%)	**Excellent**	Ethanol	Limited	**Naphtha**	**Excellent**
Acetone	Limited	Ether	Unsuitable	**Natural Gas**	**Excellent**
Acetylene	**Excellent**	**Ethyl Alcohol**	**Excellent**	**Nickel Chloride**	**Excellent**
Alum	**Excellent**	Ethyl Acetate	Limited	Nitric Acid	Unsuitable
Aluminum Chloride	**Excellent**	Ethyl Chloride	Unsuitable	**Nitrogen**	**Excellent**
Ammonia Gas	Unsuitable	**Formaldehyde**	**Excellent**	**Oleic Acid**	**Excellent**
Ammonia Liquid	Unsuitable	Formic Acid	Limited	Oxygen	Limited
Ammonium Chloride	**Excellent**	**Freon 12-22-502**	**Excellent**	Ozone	Limited
Ammonium Nitrate	**Excellent**	**Gas Oil**	**Excellent**	**Paints**	**Excellent**
Amyl acetate	Limited	**Gasoline**	**Excellent**	**Petroleum (Raw)**	**Excellent**
Barium Chloride	**Excellent**	**Glucose**	**Excellent**	Phenol	Unsuitable
Benzene Chloride	Unsuitable	**Glycerin**	**Excellent**	**Potassium Chloride**	**Excellent**
Benzine (Benzol)	Limited	**Glycol**	**Excellent**	**Potassium Cyanide**	**Excellent**
Borax	**Excellent**	**Hydraulic Oil**	**Excellent**	**Propane**	**Excellent**
Boric Acid	Limited	**Hydrogen**	**Excellent**	**Sodium Bisulphate**	**Excellent**
Butane	**Excellent**	**Hydrogen**	**Excellent**	**Sodium Chloride**	**Excellent**
Butilic Alcohol	Limited	**Iron Chlorine**	**Excellent**	**Sodium Nitrate**	**Excellent**
Butyl Acetate	**Excellent**	**Kerosene**	**Excellent**	**Sulphides**	**Excellent**
Calcium Hydroxide	**Excellent**	**Lactid Acid**	**Excellent**	Sulphuric Chloride	Excellent
Carbonic Acid	**Excellent**	**LPG (Liquid Gas)**	**Excellent**	**Sulphuric Hydrogen**	**Excellent**
Carbonic Dioxide	**Excellent**	**Lubricating Oils**	**Excellent**	Toluene (Toluol)	Limited
Carbonic Oxide	**Excellent**	**Magnesium Chloride**	**Excellent**	Trichlorethylene	Unsuitable
Chloro Gas	Unsuitable	**Mercuric Cholride**	**Excellent**	**Xilene**	**Excellent**
Chromic Acid	Unsuitable	**Mercury**	**Excellent**	Zinc Chloride	Limited
Citric acid	**Excellent**	**Methylic**	**Excellent**		
Cyanide	**Excellent**	**Mineral Oil**	**Excellent**		

http://mdmetric.com
copyright 2003 maryland metrics/mazzer

Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

POLYETHYLENE straight tubing SIZE CHART

INCHES

REF. SIZE	O.D. NOM. IN.	I.D. NOM. IN.	WALL THICKNESS NOM.IN.	MIN. BEND RADIUS ++ IN.	O.D. TOL. IN.	I..D. TOL. IN.	MIN.BURST *** PRESSURE PSI @ 75 F	MAZZER COIL LENGTH
PE 2	**1/8**	**.080**	.023	.39	+/- .004	+/- .004	500	100, 500, 1 000 ft.*
PE 2.5	**5/32**	**.106**	.025	.47	+/- .004	+/- .004	500	100, 500, 1 000 ft.*
PE 3	**3/16**	**.118**	.035	.59	+/- .004	+/- .004	500	100, 500, 1 000 ft.*
PE 4	**1/4**	**.170**	.040	.98	+/- .004	+/- .004	500	100, 500, 1 000 ft.+
PE 562	**5/16**	**.188**	.062	1.25	+/- .004	+/- .004	500	100, 500, 1 000 ft.+
PE 662	**3/8**	**.250**	.062	1.5	+/- .004	+/- .004	500	100, 500, 1 000 ft.
PE 8	**1/2**	**.375**	.062	2.5	+/- .004	+/- .004	400	100, 500 ft.

* Reels available up to 5 000 ft.
\+ Reels available up to 2 000 ft.

Colors (insert appropriate letter when ordering):

N Natural **B** Black **R** Red **BU** Blue **G** Green **Y** Yellow **OR** Orange **GY** Gray

METRIC

REF. SIZE	O.D. NOM. MM.	I.D. NOM. MM.	WALL THICKNESS NON.MM.	MIN. BEND RADIUS ++ MM.	O.D. TOL. MM.	I.D. TOL. MM.	MIN.BURST *** PRESSURE bar/psi @ 75 F	MAZZER COIL LENGTH
PE 0425	**4**	**2.5**	0.75	12	+.05 -.1	+/- .1	35/500	25, 150, 300 meters*
PE 0604	**6**	**4**	1	36	+.05 -.1	+/- .1	35/500	25, 150, 300 meters
PE 0806	**8**	**6**	1	48	+.05 -.1	+/- .1	24/350	25, 150, 300 meters+
PE 1008	**10**	**8**	1	60	+.05 -.1	+/- .1	17/250	25, 150, 300 meters+
PE 1210	**12**	**10**	1	140	+.05 -.1	+/- .1	14/200	25, 150, 300 meters+

* Reels available up to 1 500 meters
\+ Reels available in 500 meters

Conversions:

1" correspond to 25.41 MM (millimeters) 1 bar correspond to 14.5 psi

To convert Fahrenheit to Celsius subtract 32 from Fahrenheit, divide by 9 and multiply by 5

To convert Celsius to Fahrenheit divide Celsius by 5, multiply by 9 and add 32

++ Specified minimum bend radius is for minimal tube flattening.

*** The safety factor adopted set the minimum bursting pressure at four (4) times the working pressure. Please, always remember that the bursting and working pressure data listed are determined at 75 degree F (24 Celsius)

Colors (insert appropriate letter when ordering):

N Natural **B** Black **BU** Blue Others colors on special order

http://mdmetric.com
copyright 2003 maryland metrics/mazzer

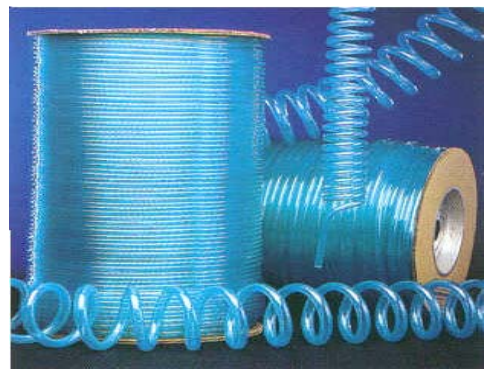
Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

MAZZER POLYURETHANE TUBING-*95 DUROMETER*

THE RUBBER-LIKE TUBING WITH ALL THE ADVANTAGES OF PLASTICS

Mazzer polyurethane ETHER based tubing has the characteristics of an elastomer with good elongation and recovery along with many of the desirable properties of thermoplastics. The temperature range is - 40 F. + 180 F. and is the most flexible of all plastic tubing. Polyurethane has good chemical and abrasion resistance yet tough and flexible.

-Most flexible
-Kink resistant
-Excellent abrasion resistance
-Broad range of chemical resistance
-Toughest
-Excellent oxidation and ozone resistance



APPLICATIONS :

-Instrumentation
-Machine tools
-Food processing equipment
-General manufacturing applications
-General medical applications
-General laboratory use
-Automotive

HARDNESS : 95 SHORE A (ASTM D 785)

MAZZER TUBING CHEMICAL COMPATIBILITY CHART

The information given in this chart should be used as a guide only. Our laboratory testing does not take into consideration possible variations of conditions during effective service.

Acetate Solvents	Limited	**Diesel Fuel**	**Excellent**	Moisture	-
Acetic Acid (10%)	Limited	Ethanol	Limited	**Naphtha**	**Excellent**
Acetone	Unsuitable	Ether	Limited	**Natural Gas**	**Excellent**
Acetylene	**Excellent**	Ethyl Alcohol	Limited	**Nickel Chloride**	**Excellent**
Alum	**Excellent**	Ethyl Acetate	Limited	Nitric Acid	Unsuitable
Aluminum Chloride	**Excellent**	**Ethyl Chloride**	**Excellent**	**Nitrogen**	**Excellent**
Ammonia Gas	**Excellent**	**Formaldehyde**	**Excellent**	Oleic Acid	Limited
Ammonia Liquid	Limited	Formic Acid	Unsuitable	**Oxygen**	**Excellent**
Ammonium Chloride	**Excellent**	**Freon 12-22-502**	**Excellent**	**Ozone (cold)**	**Excellent**
Ammunium Nitrate	Limited	Gas Oil	Limited	Paints	Limited
Amyl acetate	Limited	**Gasoline**	**Excellent**	**Petroleum (Raw)**	**Excellent**
Barium Chloride	**Excellent**	**Glucose**	**Excellent**	Phenol	Unsuitable
Benzene Chloride	Unsuitable	**Glycerine**	**Excellent**	Potassium Chloride	Unsuitable
Benzine (Benzol)	Unsuitable	**Glycol**	**Excellent**	**Potassium Cyanide**	**Excellent**
Borax	Unsuitable	**Hydraulic Oil**	**Excellent**	**Propane**	**Excellent**
Boric Acid	Limited	**Hydrogen**	**Excellent**	**Sodium Bisulphate**	**Excellent**
Butane	**Excellent**	**Hydrogen**	**Excellent**	**Sodium Chloride**	**Excellent**
Butilic Alcohol	Limited	**Iron Cholrine**	**Excellent**	**Sodium Nitrate**	**Excellent**
Butyl Acetate	Unsuitable	**Kerosene**	**Excellent**	Sulphides	Limited
Calcium Hydroxide	Unsuitable	Lactid Acid	Unsuitable	Sulphuric Chloride	Limited
Carbonic Acid	-	**LPG (Liquid Gas)**	**Excellent**	Sulphuric Hydrogen	Limited
Carbonic Dioxide	**Excellent**	**Lubricating Oils**	**Excellent**	Toluene (Toluol)	Unsuitable
Carbonic Oxide	Unsuitable	**Magnesium Chloride**	**Excellent**	Trichlorethylene	Unsuitable
Chloro Gas	Unsuitable	**Mercuric Cholride**	**Excellent**	Xilene	Unsuitable
Chromic Acid	Unsuitable	**Mercury**	**Excellent**	Zinc Chloride	Limited
Citric acid	**Excellent**	Methylic	Limited		
Cyanide	Unsuitable	**Mineral Oil**	**Excellent**		

http://mdmetric.com
copyright 2003 maryland metrics/mazzer

Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

POLYURETHANE straight tubing SIZE CHART

INCHES

REF. SIZE	O.D. NOM. IN.	I.D. NOM. IN.	WALL THICKNESS NOM.IN.	MIN. BEND RADIUS ++ IN.	O.D.+++ TOL. IN.	I.D. TOL. IN.	MIN.BURST *** PRESSURE PSI @ 75 F	MAZZER COIL LENGTH
PU 2	**1/8**	**1/16**	.032	.35	+/- .008	+/- .005	400	100, 500, 1 000 ft.*
PU 2.5	**5/32**	**3/32**	.032	.47	+/- .008	+/- .005	400	100, 500, 1 000 ft.*
PU 3	**3/16**	**1/8**	.032	.55	+/- .008	+/- .005	400	100, 500, 1 000 ft.*
PU 4	**1/4**	**1/8**	.062	.75	+/- .008	+/- .005	400	100, 500, 1 000 ft.+
PU 445	**1/4**	**.159**	.045	.75	+/- .008	+/- .005	250	100, 500, 1 000 ft.+
PU 5	**5/16**	**1/4**	.031	1.38	+/- .010	+/- .010	100	100, 500, 1 000 ft.+
PU 562	**5/16**	**3/16**	.062	.95	+/- .010	+/- .010	330	100, 500, 1 000 ft.+
PU 6	**3/8**	**1/4**	.062	1.5	+/- .010	+/- .010	330	100, 500, 1 000 ft.
PU 8	**1/2**	**3/8**	.062	1.97	+/- .010	+/- .010	330	100, 500 ft.

* Reels available up to 5 000 ft.
\+ Reels available up to 2 000 ft.

Colors (insert appropriate letter when ordering):

N Natural **B** Black **R** Red **BU** Blue **G** Green **Y** Yellow **OR** Orange **HLBL** High Light Blue

METRIC

REF. SIZE	O.D. NOM. MM.	I.D. NOM. MM.	WALL THICKNESS NON.MM.	MIN. BEND RADIUS ++ MM.	O.D.+++ TOL. MM.	I.D. TOL. MM.	MIN.BURST *** PRESSURE bar/psi @ 75 F	MAZZER COIL LENGTH
PU 0425	**4**	**2.5**	0.75	12	+/- .2	+/- .2	28/400	25, 150, 300 meters*
PU 0503	**5**	**3**	1	15	+/- .2	+/- .2	28/400	25, 150, 300 meters*
PU 0604	**6**	**4**	1	18	+/- .2	+/- .2	28/400	25, 150, 300 meters
PU 0806	**8**	**6**	1	24	+/- .3	+/- .3	23/330	25, 150, 300 meters
PU 1007	**10**	**7**	1.5	40	+/- .3	+/- .3	23/330	25, 150, 300 meters
PU 1208	**12**	**8**	2	48	+/- .3	+/- .3	23/330	25, 150, 300 meters

* Reels available up to 1 500 meters

Conversions:

1" correspond to 25.41 MM (millimeters) 1 bar correspond to 14.5 psi

To convert Fahrenheit to Celsius subtract 32 from Fahrenheit, divide by 9 and multiply by 5

To convert Celsius to Fahrenheit divide Celsius by 5, multiply by 9 and add 32

+++ Due the high polyurethane flexibility the tubing section may become oval close to the spool's core. The ovality tolerances are as follows:

Tubing OD from 4 mm (or 1/8 inches) to 6 mm (or 1/4 inches) the tubing can be ovalized up to 0.4 mm (0.016 inches)

Tubing OD that the bursting and working pressure data listed are determined at 75 degree F (24 Celsius)

Colors (insert appropriate letter when ordering):

N Natural **B** Black **BU** Blue Others on special order

copyright 2003 maryland metrics/mazzer

Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

MAZZER INDUSTRIES, INC.

MAZZER NYLON 12 EXTRA FLEXIBLE-LONG LIFE TUBING

THE EXTRA FLEXIBLE NYLON TUBING THAT REMAINS EXTRA-FLEXIBLE

The market has a growing demand for a tubing that has the Nylon and chemical resistance combined with the flexibility of Polyurethane. At a price between the two, **Mazzer Extra Flexible Nylon** tubing is responding to this market demand.
The EFPA is a Nylon tubing with the plasticizers bonded at molecular level to the Nylon's molecules. This advance formulation allows for a greater flexibility combined with a high working pressure, that is lower than the regular Nylon but higher than the PU.
More important, the molecular bond prevents the plasticizer migration to the surface of the tubing that is a common characteristic of the standard plasticized Nylon tubing.

-Most flexible
-Kink resistant
-Long fatigue life
- Corrosion resistance and chemical compatibility
- Less expensive than the Polyurethane tubing
-Higher pressure resistance than the Polyurethane tubing

APPLICATIONS :

-Instrumentation
-Machine tools
-General manufacturing applications
-Fuel
-Machine tool
-Automotive
-Automation
-Vacuum

BROAD TEMPERATURE RANGE : -40 + 190 F
HARDNESS : 50 SHORE D (ASTM D 785)

MAZZER TUBING CHEMICAL COMPATIBILITY CHART

The information given in this chart should be used as a guide only. Our laboratory testing does not take into consideration possible variations of conditions during effective service.

Acetate Solvents	**Excellent**	**Diesel Fuel**	**Excellent**
Acetic Acid (10%)	Limited	Ethanol	Limited
Acetone	**Excellent**	**Ether**	**Excellent**
Acetylene	**Excellent**	**Ethyl Alcohol**	**Excellent**
Alum	**Excellent**	Ethyl Acetate	Limited
Aluminum Chloride	**Excellent**	**Ethyl Chloride**	**Excellent**
Ammonia Gas	**Excellent**	**Formaldehyde**	**Excellent**
Ammonia Liquid	Limited	Formic Acid	Limited
Ammonium Chloride	**Excellent**	**Freon 12-22-502**	**Excellent**
Ammonium Nitrate	**Excellent**	**Gas Oil**	**Excellent**
Amyl acetate	Limited	**Gasoline**	**Excellent**
Barium Chloride	**Excellent**	**Glucose**	**Excellent**
Benzene Chloride	Unsuitable	**Glycerin**	**Excellent**
Benzine (Benzol)	Limited	**Glycol**	**Excellent**
Borax	**Excellent**	**Hydraulic Oil**	**Excellent**
Boric Acid	Limited	**Hydrogen**	**Excellent**
Butane	**Excellent**	**Hydrogen**	**Excellent**
Butilic Alcohol	**Excellent**	**Iron Cholrine**	**Excellent**
Butyl Acetate	**Excellent**	**Kerosene**	**Excellent**
Calcium Hydroxide	**Excellent**	**Lactid Acid**	**Excellent**
Carbonic Acid	**Excellent**	**LPG (Liquid Gas)**	**Excellent**
Carbonic Dioxide	**Excellent**	**Lubricating Oils**	**Excellent**
Carbonic Oxide	**Excellent**	**Magnesium Chloride**	**Excellent**
Chloro Gas	Unsuitable	**Mercuric Cholride**	**Excellent**
Chromic Acid	Unsuitable	**Mercury**	**Excellent**
Citric acid	**Excellent**	Methylic	Limited
Cyanide	**Excellent**	**Mineral Oil**	**Excellent**

Moisture	Limited
Naphtha	**Excellent**
Natural Gas	**Excellent**
Nickel Chloride	**Excellent**
Nitric Acid	Unsuitable
Nitrogen	**Excellent**
Oleic Acid	**Excellent**
Oxygen	**Excellent**
Ozone (cold)	**Excellent**
Paints	**Excellent**
Petroleum (Raw)	**Excellent**
Phenol	Unsuitable
Potassium Chloride	**Excellent**
Potassium Cyanide	**Excellent**
Propane	**Excellent**
Sodium Bisulphate	**Excellent**
Sodium Chloride	**Excellent**
Sodium Nitrate	**Excellent**
Sulphides	**Excellent**
Sulphuric Chloride	Unsuitable
Sulphuric Hydrogen	**Excellent**
Toluene (Toluol)	**Excellent**
Trichlorethylene	Limited
Xilene	**Excellent**
Zinc Chloride	**Excellent**

copyright 2003 maryland metrics/mazzer

Mazzer Products are available from: MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA
e-mail: sales@mdmetric.com web: 6mm.com phones: (410)358-3130 (800)638-1830 faxes: (410)358-3142 (800)872-9329

NYLON 12 EXTRA FLEXIBLE straight tubing SIZE CHART

INCHES

REF. SIZE	O.D. NOM. IN.	I.D. NOM. IN.	WALL THICKNESS NOM.IN.	MIN. BEND RADIUS ++ IN.	O.D. TOL. IN.	I..D. TOL. IN.	MIN.BURST *** PRESSURE PSI @ 75 F	MAZZER COIL LENGTH
EFPA 2	**1/8**	**.080**	.023	.47	+.002-.0045	+/- .004	700	100, 500, 1 000 ft.*
EFPA 2.5	**5/32**	**.106**	.025	.63	+.002-.0045	+/- .004	650	100, 500, 1 000 ft.*
EFPA 3	**3/16**	**.118**	.035	.71	+.002-.0055	+/- .004	790	100, 500, 1 000 ft.*
EFPA 4	**1/4**	**.180**	.035	.87	+.002-.0055	+/- .004	550	100, 500, 1 000 ft.+
EFPA 5	**5/16**	**.233**	.040	1.42	+.002-.0055	+/- .004	500	100, 500, 1 000 ft.+
EFPA 6	**3/8**	**.275**	.050	2.16	+.002-.0055	+/- .004	500	100, 500, 1 000 ft.
EFPA 8	**1/2**	**.375**	.062	2.36	+.002-.0055	+/- .004	490	100, 500 ft.

* Reels available up to 5 000 ft. + Reels up to 2 000 ft. ++ Specified min. bend radius is for minimal tube flattening.

*** The safety factor adopted set the mimimum bursting pressure at four (4) times the working pressure. Please, always remember that the bursting and working pressure data listed are determined at 75 degree F (24 Celsius)

Colors (insert appropriate letter when ordering): **N** Natural **B** Black **BU** Blue Others on special order

copyright 2003 maryland metrics/mazzer