

# Polyurethane Tubing

## Series U: Polyether Base



### Features

- 90 to 95 Shore A durometer
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

### Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools

- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications



- General pneumatics
- Vacuum equipment

Part Number	Tube O.D.		Tube I.D.		Average Wall Thickness		Working Pressure at 73°F / 23°C		Minimum Burst at 73°F / 23°C		Reel Length	Weight	
#													
Natural	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	feet	lbs./ft.	kg./mtr.
U-21-XXXX	1/8	3.2	.063	1.6	.031	0.79	125	8.6	375	25.9	0050, 0250, 0500, 1000	.005	.007
U-32-XXXX	3/16	4.8	.125	3.2	.031	0.79	125	8.6	375	25.9	0050, 0250, 0500	.008	.012
U-42-XXXX	1/4	6.4	.125	3.2	.063	1.6	125	8.6	375	25.9	0050, 0250, 0500, 1000	.018	.027
U-64-XXXX	3/8	9.5	.250	6.4	.063	1.6	125	8.6	375	25.9	0050, 0250, 0500, 1000	.030	.045
U-85-XXXX	1/2	12.7	.328	8.3	.086	2.2	125	8.6	375	25.9	0050, 0250, 0500	.044	.065
U-86-XXXX	1/2	12.7	.375	9.5	.063	1.6	85	5.9	255	17.6	0050, 0250, 0500	.042	.062
U-96-XXXX	9/16	14.3	.375	9.5	.094	2.4	125	8.6	375	25.9	0050, 0100	.068	.101
U-128-XXXX	3/4	19.1	.500	12.7	.125	3.2	125	8.6	375	25.9	0050, 0100	.120	.179

Also available in coils



For detailed ordering information, please consult price list or contact Parflex® Division.

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## Order Information

### Example: U-21-BLK-0500

**U-21-BLK-0500 – Polyurethane**

U-**21**-BLK-0500 – **Tube O.D.** in sixteenths of an inch (**1/8"**)

U-**21**-BLK-0500 – **Tube I.D.** in sixteenths of an inch (**.063"**)

U-21-**BLK**-0500 – **Color (Black)** (Omit for Natural)

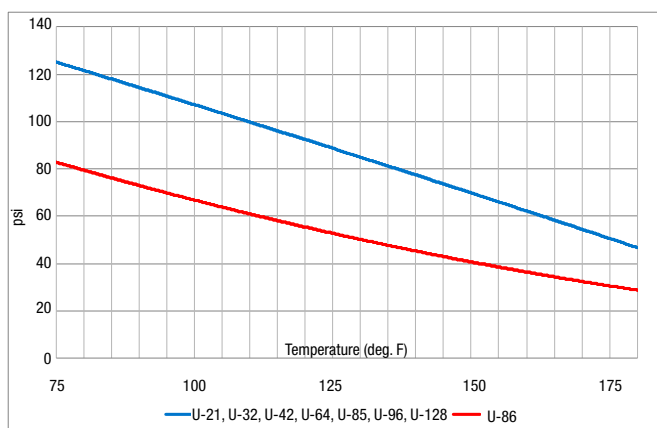
U-21-BLK-**0500** – **Package Quantity** in feet (**500'**)

Opaque Color Code		
○	-	Natural
●	BLK	Black
●	BLU	Blue
●	GRA	Gray
●	GRN	Green
●	ORG	Orange
●	RED	Red
○	WHT	White
●	YEL	Yellow

Transparent Color Code		
●	TBLU	Transparent Blue
●	TGRN	Transparent Green
●	TORG	Transparent Orange
●	TRED	Transparent Red
●	TYEL	Transparent Yellow

## Polyurethane Tubing (Series U)

### Maximum Working Pressure (psig)



## Fittings

Parker fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Fast & Tite
- Flow Control
- Prestolok Brass
- TrueSeal™
- Par-Barb™

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

## Notes

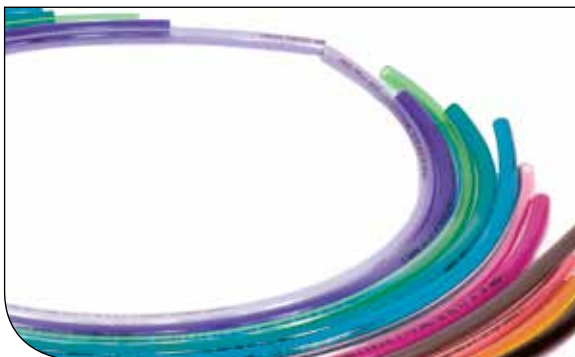
- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F to +180°F (-40°C to +82°C)

## Colors

- See Color Code Table

# Metric Polyurethane Tubing

## Series UM: Polyether Base



### Features

- 90 to 95 Shore A durometer
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

### Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools
- General pneumatics
- Vacuum equipment
- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications

Part Number	Tube O.D.		Tube I.D.		Average Wall Thickness		Working Pressure at 73°F / 23°C		Minimum Burst at 73°F / 23°C		Reel Length	Weight	
#													
Natural	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	feet	kg./mtr.	lbs./ft.
UM4x2.5-XXXX	4	.157	2.5	.098	0.75	.030	9.0	131	26.0	377	0100, 0250, 0500	.009	.006
UM6x4-XXXX	6	.236	4.0	.157	1.00	.039	9.0	131	26.0	377	0100, 0250, 0500	.018	.012
UM8x5-XXXX	8	.315	5.0	.196	1.50	.059	9.0	131	26.0	377	0100, 0250, 0500	.036	.024
UM10x6.5-XXXX	10	.393	6.5	.256	1.75	.069	9.0	131	26.0	377	0100, 0250	.053	.036
UM12x8-XXXX	12	.472	8.0	.315	2.00	.079	9.0	131	26.0	377	0100, 0250	.073	.049



For detailed ordering information, please consult price list or contact Parflex® Division.

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## Order Information

### Example: UM6x4-BLK-0100

**UM6X4-BLK-0100 – Polyurethane Metric**

UM**6**X4-BLK-0100 – **Tube O.D.** in millimeters (**6 mm**)

UM6X**4**-BLK-0100 – **Tube I.D.** in millimeters (**4 mm**)

UM6X4-**BLK**-0100 – **Color (Black)** (Omit for Natural)

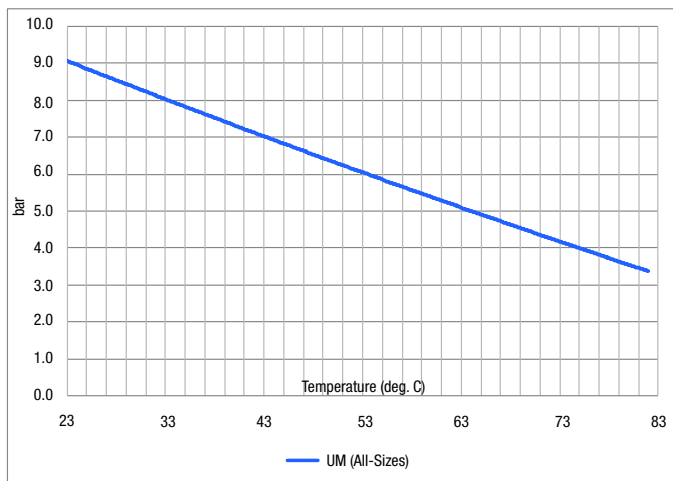
UM6X4-BLK-**0100** – **Package Quantity** in feet (**100'**)

Opaque Color Code		
○	-	Natural
●	BLK	Black
●	BLU	Blue
●	GRA	Gray
●	GRN	Green
●	ORG	Orange
●	RED	Red
●	YEL	Yellow

Transparent Color Code		
●	TBLU	Transparent Blue
●	TGRN	Transparent Green
●	TORG	Transparent Orange
●	TRED	Transparent Red
●	TYEL	Transparent Yellow

## Metric Polyurethane Tubing (Series UM)

### Maximum Working Pressure (bar)



## Fittings

Parker fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Prestolok Brass
- Par-Barb

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

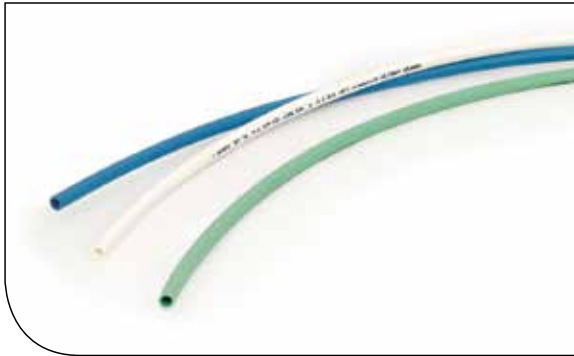
## Notes

- The recommended operating temperature range for service at rated pressures with compatible fluids is -40°F to +180°F (-40°C to +82°C)

## Colors

- See Color Code Table

# HUFR MicroWeld™ Tubing



## Features

- Mono-wall construction eliminates the need for skiving tools or knives, reducing installation time
- Excellent abrasion resistance
- Silicone and halogen free
- Weighs 36% less than equivalent covered tubing

## Certifications

- UL 94 V2 compliant

## Applications/Markets



- Robotics
- Welding
- General automation

Part Number	Tube O.D.		Tube I.D.		Average Wall Thickness		Working Pressure at 73°F / 23°C		Minimum Burst at 73°F / 23°C		Reel Length	Minimum Bend Radius		Weight	
#															
	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	feet	inch	mm	lbs./ft.	kg./mtr.
HUFR-4-045-XX-0500	1/4	6.4	.160	4.1	.045	1.1	175	12.1	525	36.2	0500	.50	12.7	.016	.024
HUFR-6-062-XX-0500	3/8	9.5	.251	6.4	.062	1.6	150	10.3	450	31.0	0500	.75	19.1	.033	.049
HUFR-8-090-XX-0250	1/2	12.7	.320	8.1	.090	2.3	160	11.0	475	32.7	0250	1.00	25.4	.063	.094

## Order Information

**Example: HUFR-4-045-BL-0500**

**HUFR-4-045-BL-0500 – MicroWeld™ Polyurethane**

HUFR-**4**-045-BL-0500 – **Tube O.D.** in sixteenths of an inch (**1/4"**)

HUFR-4-**045**-BL-0500 – **Wall Thickness** in inches (**.045"**)

HUFR-4-045-**BL**-0500 – **Color (Blue)**

HUFR-4-045-BL-**0500** – **Package Quantity** in feet (**500'**)

Color Code		
●	BK	Black
●	BL	Blue
●	GN	Green
●	RD	Red
○	WH	White

## Fittings

Parker fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Prestolok PLM

## Notes

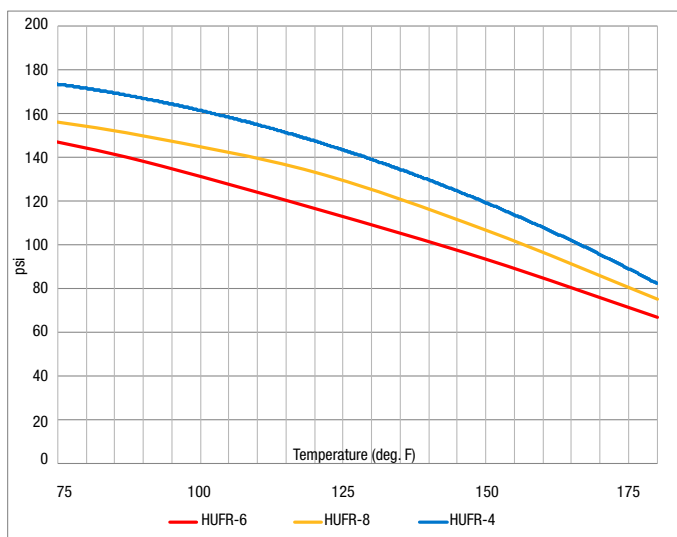
- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F to +180°F (-40°C to +82°C)

## Colors

- See Color Code Table

## MicroWeld™ Tubing (Series HUFR)

### Maximum Working Pressure (psig)



For detailed ordering information, please consult price list or contact Parflex® Division.

# Polyurethane Tubing

## Series HU: High Durometer Polyether Base



### Features

- 95 Shore A durometer or greater
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

### Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools

- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications



- General pneumatics
- Vacuum equipment

Part Number	Tube O.D.		Tube I.D.		Average Wall Thickness		Working Pressure at 73°F / 23°C		Minimum Burst at 73°F / 23°C		Reel Length	Weight	
#													
	inch	mm	inch	mm	inch	mm	psi	bar	psi	bar	feet	lbs./ft.	kg./mtr.
HU-2-XXXX	1/8	3.2	.063	1.6	.031	0.79	300	20.7	900	62.1	0100, 0250, 0500	.005	.007
HU-2.5-XXXX	5/32	4.0	.094	2.4	.031	0.79	210	14.5	630	43.4	0100, 0500	.006	.009
HU-4-XXXX	1/4	6.4	.160	4.1	.045	1.1	180	12.4	540	37.2	0100, 0500	.014	.021
HU-6-XXXX	3/8	9.5	.250	6.4	.062	1.6	180	12.4	540	37.2	0100, 0500	.030	.045
HU-8-XXXX	1/2	12.7	.320	8.1	.090	2.3	180	12.4	540	37.2	0100, 0250	.057	.085
HU-12-XXXX	3/4	19.1	.467	11.9	.142	3.6	180	12.4	540	37.2	0100, 0250	.133	.198



For detailed ordering information, please consult price list or contact Parflex® Division.

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## Order Information

**Example: HU-2-BLK-0500**

**HU-2-BLK-0500 – High Durometer Polyurethane**

HU-2-BLK-0500 – **Tube O.D.** in sixteenths of an inch (**1/8"**)

HU-2-**BLK**-0500 – **Color (Black)**

HU-2-BLK-**0500** – **Package Quantity** in feet (**500'**)

Color Code		
●	BLK	Black
●	BLU	Blue
●	DBL	Dark Blue
●	RED	Red
●	YEL	Yellow

## Fittings

Parker fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Fast & Tite
- Flow Control
- Prestolok Brass
- Prestolok Composite
- TrueSeal™

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

## Notes

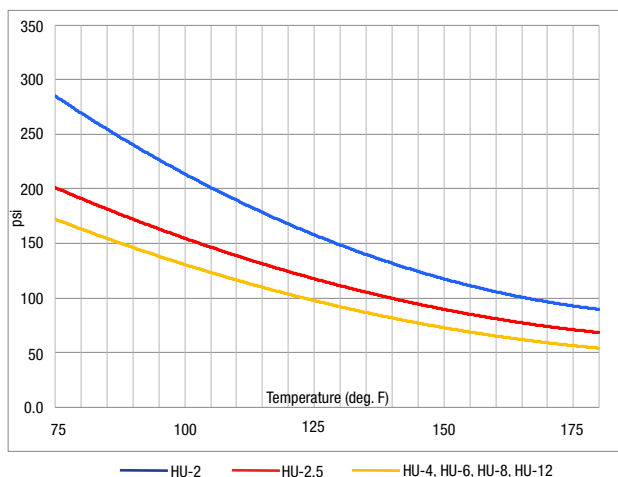
- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F to +180°F (-40°C to +82°C)

## Colors

- See Color Code Table

## Polyurethane Tubing (Series HU)

**Maximum Working Pressure (psig)**



For detailed ordering information, please consult price list or contact Parflex® Division.



# Metric Polyurethane Tubing

## Series HUM: High Durometer (Metric) Polyether Base



### Features

- 95 Shore A durometer or greater
- Excellent kink and abrasion resistance
- Excellent hydrolytic stability
- Flexible and easy to assemble onto designated fittings
- Polyurethane tubing exhibits the elongation and recovery characteristics of rubber and the chemical resistance associated with plastics

### Applications/Markets



- Pneumatic controls
- Robotics
- Machine tools

- Analytical instrumentation
- Semiconductor equipment
- Medical and laboratory applications



- General pneumatics
- Vacuum equipment

Part Number	Tube O.D.		Tube I.D.		Average Wall Thickness		Working Pressure at 73°F / 23°C		Minimum Burst at 73°F / 23°C		Reel Length	Weight	
#													
	mm	inch	mm	inch	mm	inch	bar	psi	bar	psi	feet	kg./mtr.	lbs./ft.
HUM-4-XXXX	4	.157	2.4	.094	0.80	.031	12.4	180	37.2	540	0100, 0500	.009	.006
HUM-6-XXXX	6	.236	4.0	.157	1.00	.039	12.4	180	37.2	540	0100, 0500	.018	.012
HUM-8-XXXX	8	.315	5.0	.196	1.50	.059	12.4	180	37.2	540	0100, 0500	.036	.024
HUM-10-XXXX	10	.393	6.5	.256	1.75	.069	12.4	180	37.2	540	0100, 0250	.053	.036
HUM-12-XXXX	12	.472	8.0	.315	2.00	.079	12.4	180	37.2	540	0100, 0250	.073	.049



For detailed ordering information, please consult price list or contact Parflex® Division.

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## Order Information

**Example: HUM-6-BLK-0100**

**HUM-6-BLK-0100 – High Durometer Metric Polyurethane**

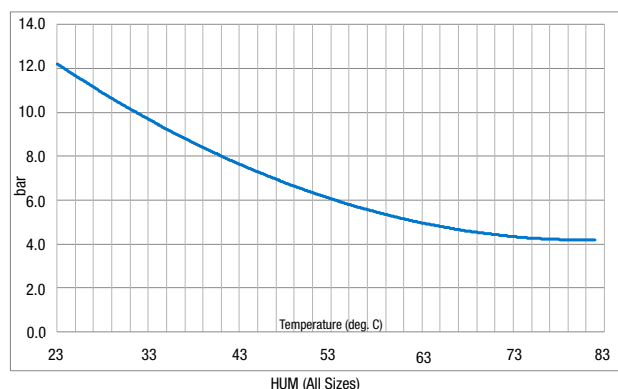
HUM-**6**-BLK-0100 – **Tube O.D.** in millimeters (**6mm**)

HUM-6-**BLK**-0100 – **Color (Black)**

HUM-6-BLK-**0100** – **Package Quantity** in feet (**100'**)

## Metric Polyurethane Tubing (Series HUM)

### Maximum Working Pressure (bar)



## Fittings

Parker fittings available from:  
Fluid System Connectors Division  
Otsego, MI  
(269) 692-6555  
(269) 694-4614 FAX

FSC Product Families:

- Flow Control
- Prestolok Brass
- Prestolok Composite

A tube support should be used with this tubing for maximum holding power where end loading, vibration or pressure spikes may occur. Reference Tubing/Fitting Compatibility Chart (pg. B-6)

## Notes

- Suggested operating temperature range for service at rated pressures with compatible fluids is -40°F to +180°F (-40°C to +82°C)

## Colors

- Natural
- Black