



EDITION 0818

New Tubing Products

By Kuriyama

 **Kuriyama of America, Inc.**



K05BK Series UV Resistant Black PVC Tubing

General Applications:

- Drainage lines
- Outdoor applications
- Printing press equipment
- Transfer of weak chemicals and acids

Construction: Black phthalate free PVC compound formulated with ingredients in compliance with applicable FDA⁽⁰³⁾ and RoHS⁽¹⁶⁾ requirements.

Service Temperature Range:

+25°F (-4°C) to +150°F (+65°C)†

Features and Advantages:

- **Advanced UV Protection!** – Tubing material is specially formulated to resist the cracking that can result for exposure to damaging UV light. Great for outdoor applications.
- **Food Grade Materials** – Tubing complies with applicable FDA requirements.
- **Glass-smooth Interior** – Reduces possibility of material buildup and ensures smooth material flow.
- **Self-Extinguishing** – Tubing will not continue to burn after separation from flame source.



Nominal Specifications

Series	Size Code	Nominal ID		Nominal OD		Nominal Wall		Working Pressure (PSI) at 70°F (20°C)	Standard Lengths Coils (ft.)	Approx. Wt. per Pkg. (lbs.)
		(in)	(mm)	(in)	(mm)	(in)	(mm)			
K05BK	0406	1/4	6.4	3/8	9.5	1/16	1.6	55	100	3.4
K05BK	0608	3/8	9.5	1/2	12.7	1/16	1.6	45	100	4.7
K05BK	0810	1/2	12.7	5/8	15.9	1/16	1.6	30	100	6.0
K05BK	1216	3/4	19.1	1	25.4	1/8	3.2	35	100	18.8
K05BK	1620	1	25.4	1-1/4	31.8	1/8	3.2	25	100	24.1
K05BK	2024	1-1/4	31.8	1-1/2	38.1	1/8	3.2	20	50	14.8
K05BK	2432	1-1/2	38.1	2	50.8	1/8	3.2	35	50	37.5

† **Note:** Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.
Note: For details of the following compliances, refer to page 63 of the Kuri Tec catalog.

FDA⁽⁰³⁾, PHTHALATE FREE⁽¹⁵⁾, RoHS⁽¹⁶⁾

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

2840 Series

98 Shore “A” Ether-Based Heavy Duty Polyurethane Tubing

General Applications:

- Abrasive slurry transfer
- Feed and return lines
- Granular transfer lines
- Lubrication lines
- Metering pumps
- Robotics control lines
- Transfer of air and fluids under severe conditions

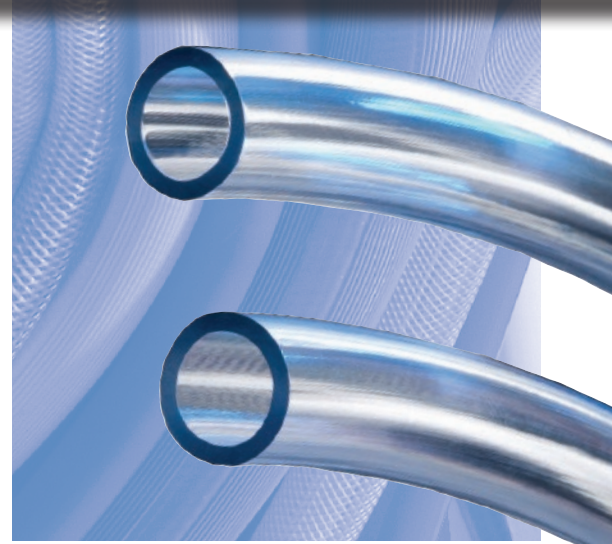
Construction: Clear 98 Shore “A” Durometer ether based polyurethane tubing formulated with ingredients in compliance with applicable FDA⁽⁰³⁾ requirements. Meets NSF⁽⁰⁹⁾ and RoHS⁽¹⁶⁾ criteria.

Service Temperature Range:

-40°F (-40°C) to +175°F (+80°C)†

Features and Advantages:

- **Abrasion Resistant Polyurethane** – Resistant to cuts, and damage from abrasion such as dragging or rubbing against rough objects. Tubing is up to three times more wear resistant than similar PVC tubing!
- **Food Grade Materials** – Tubing complies with applicable FDA, NSF 51 and NSF 61 requirements.
- **Oil Resistant** – Remains flexible when exposed to most fuels and oils. Meets ARPM Class A rating (high oil resistance).
- **Hydrolysis Resistant** – Ether based material good for water applications.
- **Low Moisture Absorption Rate** – Helps eliminate cross contamination of the transferred materials, and instances of swelling which can shorten tubing life.
- **High Cycle Strength** – Designed to resist damage resulting from constant flex applications.



Nominal Specifications

Series	Size Code	Nominal OD		Nominal ID		Nominal Wall		Working Pressure (PSI) at 70°F (20°C)	Standard Lengths (ft.)		Approx. Wt. per Pkg. (lbs.)	
		(mm)	(in)	(mm)	(in)	(mm)	(in)		Spool/box	Coils/box	500 ft.	100 ft.
2840	MM04	4.0	.157	2.4	.094	0.8	.031	200	500	100	3.5	0.7
2840	MM06	6.0	.236	4.0	.157	1.0	.039	180	500	100	6.5	1.3
2840	MM08	8.0	.315	5.0	.197	1.5	.059	175	500	100	13.0	2.6
2840	MM10	10.0	.394	6.5	.256	1.75	.069	150	500	100	19.5	3.9
2840	MM12	12.0	.472	8.0	.315	2.0	.079	150	500	100	26.5	5.3

† Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: When exceptional oil and fuel resistance is needed, we suggest use of Series 2810 ester-based tubing which is RoHS⁽¹⁵⁾ compliant — call for details.

Note: For details of the following compliances, refer to page 63 of the Kuri Tec catalog.

FDA⁽⁰³⁾, NSF⁽⁰⁹⁾, PHTHALATE FREE⁽¹⁵⁾, RoHS⁽¹⁶⁾

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420N Series

Nylon 12 Tubing

General Applications:

- Chemical transfer
- Lubrication and coolant transfer
- Paint supply lines
- Pneumatic and instrumentation lines
- Pneumatic tools

Construction: Nylon 12 – natural color. In compliance with RoHS⁽¹⁶⁾ criteria.

Service Temperature Range:

-60°F (-51°C) to +200°F (+93°C)[†]

Features and Advantages:

- **Strong and Lightweight** – Nylon construction provides high strength in a lightweight product.
- **Excellent Chemical Resistance** – Compatible with many industrial chemicals and solvents.
- **High Heat Resistance** – Heat resistant up to +200°F.



- **Low Moisture Absorption Rate** – Helps eliminate cross contamination of the transferred materials, and instances of swelling which can shorten tubing life.
- **Resistant to Environmental Stress Cracking (ESC)** – Highly resistant to the surface cracking caused by simultaneous exposure to stress and liquids.

Nominal Specifications

Series	Size Code	Nominal OD		Nominal ID		Nominal Wall		Working Pressure (PSI) at 70°F (20°C)	Standard Lengths (ft.)		Approx. Wt. per Pkg. (lbs.)	
		(in)	(mm)	(in)	(mm)	(in)	(mm)		Spool/Box	Coil/Box	500 ft.	100 ft.
420N	0435	1/4	6.4	.180	4.6	.035	0.9	290	500	100	5.5	1.1
420N	0650	3/8	9.5	.275	7.0	.050	1.3	250	500	100	11.5	2.3
420N	0862	1/2	12.7	.375	9.5	.062	1.6	240	500	100	19.0	3.8

Nominal Specifications

Series	Size Code	Nominal OD		Nominal ID		Nominal Wall		Working Pressure (PSI) at 70°F (20°C)	Standard Lengths (ft.)		Approx. Wt. per Pkg. (lbs.)	
		(mm)	(in)	(mm)	(in)	(mm)	(in)		Spool/Box	Coil/Box	500 ft.	100 ft.
420N	MM04	4.0	.157	2.7	.106	0.65	.026	350	500	100	2.5	0.5
420N	MM06	6.0	.236	4.0	.157	1.0	.039	340	500	100	5.5	1.1
420N	MM08	8.0	.315	6.0	.236	1.0	.039	250	500	100	7.5	1.5
420N	MM10	10.0	.394	8.0	.315	1.0	.039	225	500	100	9.5	1.9
420N	MM12	12.0	.472	10.0	.394	1.0	.039	200	500	100	11.5	2.3

[†] **Note:** Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: For details of the following compliances, refer to page 63 of the Kuri Tec catalog.

PHthalate FREE⁽¹⁵⁾, RoHS⁽¹⁶⁾

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620P Series

Polytetrafluorethylene (PTFE) Tubing

General Applications:

- Aerospace and aviation applications
- Chemical transfer
- Industrial and mechanical applications
- Medical applications

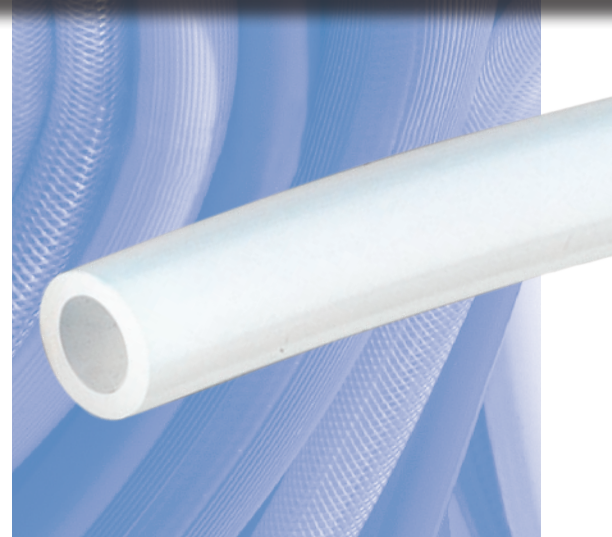
Construction: PTFE – natural color. Formulated with ingredients in compliance with applicable FDA⁽⁰³⁾ requirements. Meets USP Class VI⁽¹⁹⁾ and RoHS⁽¹⁶⁾ criteria.

Service Temperature Range:

-454°F (-270°C) to +500°F (+260°C)[†]

Features and Advantages:

- **Superior Chemical Resistance** – Chemical resistant PTFE compatible with an extremely wide range of industrial chemicals and solvents.
- **Handles Extreme Temperatures** – Service temperature range from -454°F to +500°F. Widest temperature range of any Kuri Tec product!
- **Food Grade Materials** – Tubing complies with applicable FDA and USP Class VI requirements.
- **Chemically Inert** – Will not react with most substances.
- **Flame Retardant** – Manufactured to meet UL94-V-O rating of the Standard for Safety of Flammability of Plastic Material in Devices and Appliance Testing.
- **Meets ASTM-D3295** – Physical properties compliant with ASTM requirements for PTFE tubing.



Nominal Specifications

Series	Size Code	Nominal OD		Nominal ID		Nominal Wall		Working Pressure (PSI) at 70°F (20°C)	Standard Lengths Coils (ft.)	Approx. Wt. per Pkg. (lbs.)
		(in)	(mm)	(in)	(mm)	(in)	(mm)			
620P	0463	1/4	6.4	.125	3.2	.063	1.6	372	100	2.3
620P	0431	1/4	6.4	.188	4.8	.031	0.8	174	100	1.8
620P	0663	3/8	9.5	.250	6.4	.063	1.6	240	100	5.8
620P	0863	1/2	12.7	.375	9.5	.063	1.6	150	100	6.5

[†]Note: Working Pressure decreases as temperature increases. Pressure ratings can only be obtained with proper coupling procedures.

Note: For details of the following compliances, refer to page 63 of the Kuri Tec catalog.

FDA⁽⁰³⁾, UL⁽¹⁷⁾, USP⁽¹⁹⁾, PHTHALATE FREE⁽¹⁵⁾, RoHS⁽¹⁶⁾

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Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

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