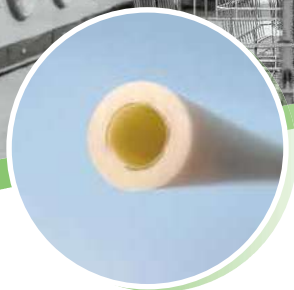


# + Innovalloy® 4000 (BK)

Chemical Resistant Peristaltic Pump Tubing  
Chemical Resistant Black Peristaltic Pump Tubing



The special structural hose designed for the transmission of various chemical reagents ensures good resistance to various corrosive liquids, and is especially suitable for the transmission of acids, alkalis, ketones, and alcohols.

Compliant with FDA food contact requirements

**Food Grade**

Innovalloy 4000 series has a low permanent compression deformation, which can ensure that the peristaltic pump can rebound to the original shape even if it is continuously squeezed in the long-term use of the peristaltic pump, ensuring the stability of the liquid transmission flow. At the same time, it adopts a double-layer structure, and the

special corrosion-resistant inner layer material ensures good resistance to strong acids, strong alkalis and most organic solvents, and can be widely used in various high and low temperature environments (-50 degrees to 80 degrees), organic acid-base solution delivery, laboratory, medical and pharmaceutical peristaltic pump applications.

## + Features

- Beige or black
- Long peristaltic pump life
- Good chemical resistance
- Resistance to chemical swelling
- Plasticizer free
- Very low gas permeability
- 70A shore hardness
- Available in various metric and imperial sizes

## + Regulations & Certifications

- Compliant with FDA 21CFR 177.2600
- RoHS
- REACH

## + Application

- Chemical reagent transfer
- Printing ink transfer
- Laboratory chemical reagent transfer
- Alcohol delivery
- Detergent and Cleaner Transfer
- Gas transfer line
- Other corrosive liquid transfer lines

\*For details of food contact compliance information, please Innovaprene® sales representative

## + Innovalloy® 4000 Typical Physical Properties

Physical Properties Table	Test Methods	Unit	Typical Value
Color	-		Beige or Black
Shore A hardness, 5sec	ASTM D 2240		70
Density	ASTM D 792		0.97
Operating temperature			-50°C to +80°C
UV Resistance			Excellent
Gas permeability rate			Low
Water absorption rate			Low
Tensile strength at break	ASTM D 412	Mpa	7.2
Tensile elongation at break	ASTM D 412	%	420
Tear tensile strength	ASTM D1004-94	kN/m	22
Permanent compression set, 70°C/22hrs	ASTM D395-98-B	%	25
Embrittlement temperature	ASTM D 746	°C	-60

## + Innovalloy® 4000 Inventoried Sizes\*

\*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID (mm) (inch)	OD (mm) (inch)	Wall Thickness (mm) (inch)	Length Per Package (m) (foot)	Minimum Bending Radius	RECO Working Pressure	RECO Vacuum Pressure				
A460-201-0050-0150	Metric size	0.50	1.50	0.50	15.2	50	2mm	1.0bar				
A460-201-0079-0397	13#	0.79	1/32	3.97	5/32	1.59	1/16	15.2	50	3mm	6.8bar	1.0bar
A460-201-0100-0200	Metric size	1.00	2.00	1.00	15.2	50	3mm	1.0bar				
A460-201-0150-0250	Metric size	1.50	2.50	0.50	15.2	50	3mm	1.0bar				
A460-201-0100-0300	Metric size	1.00	3.00	1.00	15.2	50	6mm	1.0bar				
A460-201-0159-0318		1.59	1/16	3.18	1/8	0.79	1/32	15.2	50	6mm	2.1bar	1.0bar
A460-201-0159-0476	14#	1.59	1/16	4.76	3/16	1.59	1/16	15.2	50	6mm	2.9bar	1.0bar
A460-201-0159-0635	119#	1.59	1/16	6.35	1/4	2.38	3/32	15.2	50			
A460-201-0200-0400	Metric size	2.00	4.00	1.00	15.2	50						
A460-201-0238-0556	19#	2.38	3/32	5.56	7/32	1.59	1/16	15.2	50	6mm	2.5bar	1.0bar
A460-201-0300-0500	Metric size	3.00	5.00	1.00	15.2	50						
A460-201-0318-0476		3.18	1/8	4.76	3/16	0.79	1/32	15.2	50	12mm	1.1bar	0.8bar
A460-201-0318-0635	16#	3.18	1/8	6.35	1/4	1.59	1/16	15.2	50	12mm	1.6bar	1.0bar
A460-201-0318-0794	120#	3.18	1/8	7.94	5/16	2.38	3/32	15.2	50			
A460-201-0397-0714		3.97	5/32	7.14	9/32	1.59	1/16	15.2	50			
A460-201-0476-0794	25#	4.76	3/16	7.94	5/16	1.59	1/16	15.2	50	19mm	1.1bar	1.0bar
A460-201-0476-0953	15#	4.76	3/16	9.53	3/8	2.38	3/32	15.2	50	12mm	1.6bar	1.0bar
A460-201-0635-0953	17#	6.35	1/4	9.53	3/8	1.59	1/16	15.2	50	22mm	0.9bar	1.0bar
A460-201-0635-1111	24#	6.35	1/4	11.11	7/16	2.38	3/32	15.2	50	19mm	1.3bar	1.0bar
A460-201-0635-1270	26#	6.34	1/4	12.70	1/2	3.18	1/8	15.2	50	19mm	1.6bar	1.0bar
A460-201-0794-1111	18#	7.94	5/16	11.11	7/16	1.59	1/16	15.2	50	32mm	0.9bar	0.7bar
A460-201-0794-1270	35#	7.94	5/16	12.70	1/2	2.38	3/32	15.2	50	25mm	1.0bar	1.0bar
A460-201-0953-1270	96#	9.53	3/8	12.70	1/2	1.59	1/16	15.2	50	35mm	0.6bar	0.5bar
A460-201-0953-1429	36#	9.53	3/8	14.29	9/16	2.38	3/32	15.2	50	38mm	0.9bar	1.0bar
A460-201-0953-1588	73#	9.53	3/8	15.88	5/8	3.18	1/8	15.2	50	29mm	1.1bar	1.0bar
A460-201-1111-1429		11.11	7/16	14.29	9/16	1.59	1/16	15.2	50	57mm	0.5bar	0.2bar
A460-201-1270-1588		12.70	1/2	15.88	5/8	1.59	1/16	15.2	50	76mm	0.5bar	0.5bar
A460-201-1270-1905	82#	12.70	1/2	19.05	3/4	3.18	1/8	15.2	50	29mm	0.9bar	1.0bar
A460-201-1270-2223	88#	12.70	1/2	22.23	7/8	4.76	3/16	15.2	50	80mm	1.3bar	1.2bar
A460-201-1588-2064		15.88	5/8	20.64	13/16	2.38	3/32	15.2	50	83mm	0.6bar	0.3bar
A460-101-1588-2223	184#	15.88	5/8	22.23	7/8	3.18	1/8	7.62	25	70mm	0.8bar	0.7bar
A460-101-1588-2540	89#	15.88	5/8	25.4	1	4.76	3/16	7.62	25			
A460-101-1905-2540		19.05	3/4	25.4	1	3.18	1/8	7.62	25	89mm	0.6bar	0.5bar
A460-101-1905-2858	191#	19.05	3/4	28.58	1-1/8	4.76	3/16	7.62	25			
A460-101-1905-3175	91#	19.05	3/4	31.75	1-1/4	6.35	1/4	7.62	25			
A460-101-2540-3175		25.40	1	31.75	1-1/4	3.18	1/8	7.62	25	127mm	0.5bar	0.2bar
A460-101-2540-3493	92#	25.40	1	34.93	1-3/8	4.76	3/16	7.62	25			
A460-101-2540-3810		25.40	1	38.10	1-1/2	6.35	1/4	7.62	25			

\*The recommended working pressure is the calculated value of the burst pressure measured by ASTM D1599 at a ratio of 1:4 at 23 degrees. For the detailed compatibility of Innovalloy™ 4000 with various chemical solvents, please refer to "Innovalloy™ Product Chemical Compatibility Information Sheet" or consult our sales staff