

+ Innovalene® 4365 Chemical Resistant Transparent Peristaltic Pump Tubing

The 4365 series is a transparent hose specially designed for transporting various chemical reagents, using thermoplastic elastomer materials. Good resistance to various corrosive liquids is guaranteed by a special formula, and can be used for conventional peristaltic pumps. With low gas permeability, 65A hardness is suitable for peristaltic pumps. Good resistance to acids, bases, ketones, alcohol chemicals. Does not contain any plasticizers, pure and recyclable. Prepared through special processing technology, it has a smooth inner surface, reduces hanging liquid and microbial residues, and avoids cross-contamination. With a wide range of certifications, it can be widely used in various industrial, food, chemical and laboratory fields.



*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID (mm) (inch)	OD (mm) (inch)	Wall Thickness (mm) (inch)	Per Package Length* (m) (foot)
L436-201-0050-0150	Metric size	0.50	1.50	0.50	15.2 50
L436-201-0079-0397	13#	0.79 1/32	3.97 5/32	1.59 1/16	15.2 50
L436-201-0100-0200	Metric size	1.00	2.00	0.50	15.2 50
L436-201-0150-0250	Metric size	1.50	2.50	0.50	15.2 50
L436-201-0100-0300	Metric size	1.00	3.00	1.00	15.2 50
L436-201-0159-0318		1.59 1/16	3.18 1/8	0.79 1/32	15.2 50
L436-201-0159-0476	14#	1.59 1/16	4.76 3/16	1.59 1/16	15.2 50
L436-201-0159-0635	119#	1.59 1/16	6.35 1/4	2.38 3/32	15.2 50
L436-201-0200-0400	Metric size	2.00	4.00	1.00	15.2 50
L436-201-0238-0556	19#	2.38 3/32	5.56 7/32	1.59 1/16	15.2 50
L436-201-0300-0500	Metric size	3.00	5.00	1.00	15.2 50
L436-201-0318-0476		3.18 1/8	4.76 3/16	0.79 1/32	15.2 50
L436-201-0318-0635	16#	3.18 1/8	6.35 1/4	1.59 1/16	15.2 50
L436-201-0318-0794	120#	3.18 1/8	7.94 5/16	2.38 3/32	15.2 50
L436-201-0397-0714		3.97 5/32	7.14 9/32	1.59 1/16	15.2 50
L436-201-0476-0794	25#	4.76 3/16	7.94 5/16	1.59 1/16	15.2 50
L436-201-0476-0953	15#	4.76 3/16	9.53 3/8	2.38 3/32	15.2 50
L436-201-0635-0953	17#	6.35 1/4	9.53 3/8	1.59 1/16	15.2 50
L436-201-0635-1111	24#	6.35 1/4	11.11 7/16	2.38 3/32	15.2 50
L436-201-0635-1270	26#	6.34 1/4	12.70 1/2	3.18 1/8	15.2 50
L436-201-0794-1111	18#	7.94 5/16	11.11 7/16	1.59 1/16	15.2 50
L436-201-0794-1270	35#	7.94 5/16	12.70 1/2	2.38 3/32	15.2 50
L436-201-0953-1270	96#	9.53 3/8	12.70 1/2	1.59 1/16	15.2 50
L436-201-0953-1429	36#	9.53 3/8	14.29 9/16	2.38 3/32	15.2 50
L436-201-0953-1588	73#	9.53 3/8	15.88 5/8	3.18 1/8	15.2 50
L436-201-1111-1429		11.11 7/16	14.29 9/16	1.59 1/16	15.2 50
L436-201-1270-1588		12.70 1/2	15.88 5/8	1.59 1/16	15.2 50
L436-201-1270-1905	82#	12.70 1/2	19.05 3/4	3.18 1/8	15.2 50
L436-201-1270-2223	88#	12.70 1/2	22.23 7/8	4.76 3/16	15.2 50
L436-201-1588-2064		15.88 5/8	20.64 13/16	2.38 3/32	15.2 50
L436-101-1588-2223	184#	15.88 5/8	22.23 7/8	3.18 1/8	7.62 25
L436-101-1588-2540	89#	15.88 5/8	25.4 1	4.76 3/16	7.62 25
L436-101-1905-2540		19.05 3/4	25.4 1	3.18 1/8	7.62 25
L436-101-1905-2858	191#	19.05 3/4	28.58 1-1/8	4.76 3/16	7.62 25
L436-101-1905-3175	91#	19.05 3/4	31.75 1-1/4	6.35 1/4	7.62 25
L436-101-2540-3175		25.40 1	31.75 1-1/4	3.18 1/8	7.62 25
L436-101-2540-3493	92#	25.40 1	34.93 1-3/8	4.76 3/16	7.62 25
L436-101-2540-3810		25.40 1	38.10 1-1/2	6.35 1/4	7.62 25

Adopt precision extrusion process, strictly control the dimensional tolerance, and can customize the cutting length. It can also be used for secondary treatment processes such as bonding buckle, flaring, coding, laser etching, etc., and customized production.

+ Innovalene® 4365 Product Specification

Peristaltic Pump Tubing

Feature	Thermoplastic elastomer														
	<ul style="list-style-type: none"> Colorless and transparent Chemical resistance, resistant to grease, fuel, etc. Can be used with peristaltic pump No plasticizer Comply with RoHS and REACH standards 														
Caution	<ul style="list-style-type: none"> Avoid folding Avoid high temperature 														
Material	Thermoplastic elastomer														
Operating temperature range	-73 °C to +93°C														
Physical properties	<table border="0"> <tr> <td>Colorless & transparent</td> <td>Color</td> </tr> <tr> <td>65A hardness</td> <td>Shore A Hardness ASTM D 2240</td> </tr> <tr> <td>0.89 g/cm³</td> <td>Density ASTM D 792</td> </tr> <tr> <td>6.20 MPa</td> <td>Tensile Strength at Break ASTM D 412</td> </tr> <tr> <td>1000 %</td> <td>Tensile Elongation ASTM D 412</td> </tr> <tr> <td>34 kN/m</td> <td>Tear Strength ASTM D 1004-94</td> </tr> <tr> <td>25 %</td> <td>Permanent Compression Set 70°C 22hrs ASTM D 395</td> </tr> </table>	Colorless & transparent	Color	65A hardness	Shore A Hardness ASTM D 2240	0.89 g/cm ³	Density ASTM D 792	6.20 MPa	Tensile Strength at Break ASTM D 412	1000 %	Tensile Elongation ASTM D 412	34 kN/m	Tear Strength ASTM D 1004-94	25 %	Permanent Compression Set 70°C 22hrs ASTM D 395
Colorless & transparent	Color														
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Regulations and Certifications	FDA, RoHS, REACH														
Sterilization	ETO ethylene oxide sterilized single time 25kGy irradiation sterilization single time														
Gas permeability rate	<table border="0"> <tr> <td>CO₂ 1140</td> <td>Gas volume [cm³] x wall thickness [mm]</td> </tr> <tr> <td>O₂ 76</td> <td>Inner Diameter Sectional Area [cm²] x Time [sec] x 10⁻⁶</td> </tr> <tr> <td>N₂ 190</td> <td>x Pressure drop along pipe wall [cm Hg]</td> </tr> </table>	CO ₂ 1140	Gas volume [cm ³] x wall thickness [mm]	O ₂ 76	Inner Diameter Sectional Area [cm ²] x Time [sec] x 10 ⁻⁶	N ₂ 190	x Pressure drop along pipe wall [cm Hg]								
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O ₂ 76	Inner Diameter Sectional Area [cm ²] x Time [sec] x 10 ⁻⁶														
N ₂ 190	x Pressure drop along pipe wall [cm Hg]														
Odor	none														
Toxicity	none														
Theoretical service life	at 0 bar life 500 hrs at 0.7 bar 200 hrs														

+ Innovalene® 4500 Peristaltic Pump Tubing

- Longest service life of Innovalene tubing material
- Excellent choice where peristaltic pump use and good chemical resistance is needed

Innovalene 4500 is a thermoplastic elastomer hose with Shore A hardness of 60. It has a temperature range of -70 degrees to 125 degrees. It is transparent, plasticizer free, good resilience and wear resistance, and is suitable for use in peristaltic pumps and other applications.

In addition, the Innovalene 4500 is USP Class VI certified for use in the medical and bio-pharmaceutical fields and is fully ISO 10993 certified for biocompatibility, sterilization, and aseptic welding.

Note

For detailed compatibility with various chemical solvents, please refer to "Innovaprene® Product Chemical Compatibility Information Sheet" or consult our sales personnel.

+ Innovalene® 4500 Product Specification

Peristaltic Pump Tubing

Feature	<ul style="list-style-type: none"> Stable flow, can be used with peristaltic pumps Chemical resistance, resistant to dye, detergent, vinegar, etc. Biocompatibility, medical and biopharmaceutical grade -70 degrees to 125 degrees temperature range, can be sterilized Compliant with USP Class VI, ISO 1093, RoHS and REACH 														
Caution	<ul style="list-style-type: none"> Avoid folding Avoid high pressure 														
Material	Thermoplastic elastomer														
Operating temperature range	-50°C to +130°C														
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Sterilization	125 degrees 30 minutes damp heat sterilization single time ETO ethylene oxide sterilized single time 25kGy irradiation sterilization single time														
Gas permeability	<table border="0"> <tr> <td>CO₂ 600</td> <td>Gas volume [cm³] x wall thickness [mm]</td> </tr> <tr> <td>O₂ 40</td> <td>100 Inner Diameter Sectional Area [cm²] x Time [sec] x 10⁻⁶</td> </tr> <tr> <td>N₂ 40</td> <td>x Pressure drop along pipe wall [cm Hg]</td> </tr> </table>	CO ₂ 600	Gas volume [cm ³] x wall thickness [mm]	O ₂ 40	100 Inner Diameter Sectional Area [cm ²] x Time [sec] x 10 ⁻⁶	N ₂ 40	x Pressure drop along pipe wall [cm Hg]								
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