

+ Innovalene® 1185 / 1280 Thermoplastic Polyurethane Hose

The 1185 series is made of thermoplastic polyurethane material, which has low gas permeability and good elasticity, and can be widely used in fluid transmission in industrial and medical industries. The 1280 series adopts a specially developed formula, which has improved resistance to various organic solvents, has extremely high cost performance, weather resistance and wear resistance, and can be widely used in various high and low temperature environments (-73 degrees to 93 degrees), the delivery of organic acid-base solutions and petroleum, lubricating oil, fuel, etc., in the field of positive and negative pressure gas transmission.

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® 1185 /1280 Commodity number naming rules

Innovalene® 1185

L110-

Innovalene® 1280

L129-

*Other calibers, lengths or packing methods can be customized

Cat. No.	Model	ID		OD		Wall Thickness		Per Package Length*	
		(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(m)	(foot)
L1□□-201-0050-0150	Metric size	0.50		1.50		0.50		15.2	50
L1□□-201-0079-0397	13#	0.79	1/32	3.97	5/32	1.59	1/16	15.2	50
L1□□-201-0100-0200	Metric size	1.00		2.00		0.50		15.2	50
L1□□-201-0150-0250	Metric size	1.50		2.50		0.50		15.2	50
L1□□-201-0100-0300	Metric size	1.00		3.00		1.00		15.2	50
L1□□-201-0159-0318		1.59	1/16	3.18	1/8	0.79	1/32	15.2	50
L1□□-201-0159-0476	14#	1.59	1/16	4.76	3/16	1.59	1/16	15.2	50
L1□□-201-0159-0635	119#	1.59	1/16	6.35	1/4	2.38	3/32	15.2	50
L1□□-201-0200-0400	Metric size	2.00		4.00		1.00		15.2	50
L1□□-201-0238-0556	19#	2.38	3/32	5.56	7/32	1.59	1/16	15.2	50
L1□□-201-0300-0500	Metric size	3.00		5.00		1.00		15.2	50
L1□□-201-0318-0476		3.18	1/8	4.76	3/16	0.79	1/32	15.2	50
L1□□-201-0318-0635	16#	3.18	1/8	6.35	1/4	1.59	1/16	15.2	50
L1□□-201-0318-0794	120#	3.18	1/8	7.94	5/16	2.38	3/32	15.2	50
L1□□-201-0397-0714		3.97	5/32	7.14	9/32	1.59	1/16	15.2	50
L1□□-201-0476-0794	25#	4.76	3/16	7.94	5/16	1.59	1/16	15.2	50
L1□□-201-0476-0953	15#	4.76	3/16	9.53	3/8	2.38	3/32	15.2	50
L1□□-201-0635-0953	17#	6.35	1/4	9.53	3/8	1.59	1/16	15.2	50
L1□□-201-0635-1111	24#	6.35	1/4	11.11	7/16	2.38	3/32	15.2	50
L1□□-201-0635-1270	26#	6.34	1/4	12.70	1/2	3.18	1/8	15.2	50
L1□□-201-0794-1111	18#	7.94	5/16	11.11	7/16	1.59	1/16	15.2	50
L1□□-201-0794-1270	35#	7.94	5/16	12.70	1/2	2.38	3/32	15.2	50
L1□□-201-0953-1270	96#	9.53	3/8	12.70	1/2	1.59	1/16	15.2	50
L1□□-201-0953-1429	36#	9.53	3/8	14.29	9/16	2.38	3/32	15.2	50
L1□□-201-0953-1588	73#	9.53	3/8	15.88	5/8	3.18	1/8	15.2	50
L1□□-201-1111-1429		11.11	7/16	14.29	9/16	1.59	1/16	15.2	50
L1□□-201-1270-1588		12.70	1/2	15.88	5/8	1.59	1/16	15.2	50
L1□□-201-1270-1905	82#	12.70	1/2	19.05	3/4	3.18	1/8	15.2	50
L1□□-201-1270-2223	88#	12.70	1/2	22.23	7/8	4.76	3/16	15.2	50
L1□□-201-1588-2064		15.88	5/8	20.64	13/16	2.38	3/32	15.2	50
L1□□-101-1588-2223	184#	15.88	5/8	22.23	7/8	3.18	1/8	7.62	25
L1□□-101-1588-2540	89#	15.88	5/8	25.4	1	4.76	3/16	7.62	25
L1□□-101-1905-2540		19.05	3/4	25.4	1	3.18	1/8	7.62	25
L1□□-101-1905-2858	191#	19.05	3/4	28.58	1-1/8	4.76	3/16	7.62	25
L1□□-101-1905-3175	91#	19.05	3/4	31.75	1-1/4	6.35	1/4	7.62	25
L1□□-101-2540-3175		25.40	1	31.75	1-1/4	3.18	1/8	7.62	25
L1□□-101-2540-3493	92#	25.40	1	34.93	1-3/8	4.76	3/16	7.62	25
L1□□-101-2540-3810		25.40	1	38.10	1-1/2	6.35	1/4	7.62	25

+ Innovalene® 1185 / 1280 Product Specification

Industrial Grade Tubing

Feature	Thermoplastic polyurethane	
	<ul style="list-style-type: none"> • Colorless and transparent • Chemical resistance, resistant to grease, fuel, etc. • Low temperature resistance • -73 degrees to 93 degrees temperature range • Comply with ROHS and REACH standards 	
Caution	<ul style="list-style-type: none"> • Avoid death • Avoid high temperature 	
Material	<ul style="list-style-type: none"> • Thermoplastic polyurethane 	
Operating temperature range	-73 °C to +93C	
Physical properties	Color	Colorless & transparent
	Shore A Hardness ASTM D 2240	1185 85A, 1280 82A
	Density ASTM D792	1185 1.12g/cm ³ , 1280 .20 g/cm ³
	Tensile Strength at Break ASTM D 412	1185 32MPa, 1280 42.0MPa
	Tensile Elongation ASTM D 412	1185 600%, 1280 500 %
	Tear Strength ASTM D 1004-94	70 kN/m
	Permanent Compression Set 70°C 22Hrs ASTM D 395	1185 25%, 1280 68 %
Regulations and Certifications	FDA, RoHS, REACH	
Sterilization	ETO ethylene oxide sterilized single-shot 25kGy irradiation sterilization single time	
Gas permeability	CO ₂ 360 O ₂ 80 N ₂ 40	Gas volume [cm ³] x wall thickness [mm] Inner Diameter Sectional Area [cm ²] x Time [sec] x Pressure drop along pipe wall [cm Hg] X 10 ⁻¹⁰
Odor	none	
Toxicity	none	
Theoretical service life		