

+ Innovaprene® S Low spallation peristaltic pump tubing

- Longest service life of Innovaprene tubing material
- Excellent choice where low spallation and good chemical resistance is needed

Peristaltic pump tubing is subjected to continuous shearing, extrusion and wear during long-term use, which will cause a small amount of pump tubing material debris to fall off the tubing wall. This debris builds up over time and can get mixed into the transfer medium, posing a potential contamination risk. Quality management of the purity of the transfer medium will require a certain degree of control over the inner wall stripping of the peristaltic pump tubing.



The Innovaprene series peristaltic pump tubing with "S" suffix adopts a special formula, which improves the wear resistance of the material and the peeling resistance of small molecular substances, and greatly improves the level of inner wall peeling caused by the long-term use of the peristaltic pump. Peristaltic pump tubing in various hardness levels, in addition to having a long peristaltic pump service life, improves the risk of potential contamination of the transfer medium.

+ Innovaprene® S Product Specification

Industrial & food grade peristaltic pump tubing

Feature	Low hardness peristaltic pump tubing is suitable for low torque miniature peristaltic pumps		
	<ul style="list-style-type: none"> • Steady flow • Chemical resistance, resistant to dye, detergent, vinegar, etc. • UV resistant and opaque • -60°C to 140°C temperature range • RoHS and REACH compliant 		
Caution	<ul style="list-style-type: none"> • Avoid high rpm • Avoid back pressure 		
Material	• Thermoplastic Elastomer		
Operating temperature range			
Physical properties	Color	Belge or Black	
	Shore A Hardness ASTM D 2240	65-75A	
	Density ASTM D792	0.97 g/cm ³	
	Tensile Strength at Break ASTM D 412	7.80 MPa	
	Tensile Elongation ASTM D 412	450 %	
	Tear Strength ASTM D 1004-94	25kN/m	
	Permanent Compression Set 70°C 22Hrs ASTM D 395	24 %	
Regulations and Certifications	RoHS, REACH		
Sterilization	121 °C 30 minutes steam sterilization single pass ETO ethylene oxide sterilized single-shot 25kGy irradiation sterilization single time		
Gas permeability	CO ₂ 1100	Gas volume [cm ³] x wall thickness (mm)	X 10 ⁻¹⁰
	O ₂ 180	Inner Diameter Sectional Area [cm ²] x Time [sec]	
	N ₂ 70	x Pressure drop along pipe wall [cm Hg]	
Odor	none		
Toxicity	none		
Theoretical service life	at 0 bar life	1000 hrs	
	at 0.7 bar	500 hrs	

+ Innovaprene® F/G S Nomenclature

Innovaprene® F 60 S
PFL60-

Innovaprene® G 60 S
PGL60-

*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)
P□□0-201-0050-0150	Metric size	0.50		1.50		0.50		15.2	50
P□□0-201-0079-0397	13#	0.79	1/32	3.97	5/32	1.59	1/16	15.2	50
P□□0-201-0100-0200	Metric size	1.00		2.00		0.50		15.2	50
P□□0-201-0150-0250	Metric size	1.50		2.50		0.50		15.2	50
P□□0-201-0100-0300	Metric size	1.00		3.00		1.00		15.2	50
P□□0-201-0159-0318		1.59	1/16	3.18	1/8	0.79	1/32	15.2	50
P□□0-201-0159-0476	14#	1.59	1/16	4.76	3/16	1.59	1/16	15.2	50
P□□0-201-0159-0635	119#	1.59	1/16	6.35	1/4	2.38	3/32	15.2	50
P□□0-201-0200-0400	Metric size	2.00		4.00		1.00		15.2	50
P□□0-201-0238-0556	19#	2.38	3/32	5.56	7/32	1.59	1/16	15.2	50
P□□0-201-0300-0500	Metric size	3.00		5.00		1.00		15.2	50
P□□0-201-0318-0476		3.18	1/8	4.76	3/16	0.79	1/32	15.2	50
P□□0-201-0318-0635	16#	3.18	1/8	6.35	1/4	1.59	1/16	15.2	50
P□□0-201-0318-0794	120#	3.18	1/8	7.94	5/16	2.38	3/32	15.2	50
P□□0-201-0397-0714		3.97	5/32	7.14	9/32	1.59	1/16	15.2	50
P□□0-201-0476-0794	25#	4.76	3/16	7.94	5/16	1.59	1/16	15.2	50
P□□0-201-0476-0953	15#	4.76	3/16	9.53	3/8	2.38	3/32	15.2	50
P□□0-201-0635-0953	17#	6.35	1/4	9.53	3/8	1.59	1/16	15.2	50
P□□0-201-0635-1111	24#	6.35	1/4	11.11	7/16	2.38	3/32	15.2	50
P□□0-201-0635-1270	26#	6.34	1/4	12.70	1/2	3.18	1/8	15.2	50
P□□0-201-0794-1111	18#	7.94	5/16	11.11	7/16	1.59	1/16	15.2	50
P□□0-201-0794-1270	35#	7.94	5/16	12.70	1/2	2.38	3/32	15.2	50
P□□0-201-0953-1270	96#	9.53	3/8	12.70	1/2	1.59	1/16	15.2	50
P□□0-201-0953-1429	36#	9.53	3/8	14.29	9/16	2.38	3/32	15.2	50
P□□0-201-0953-1588	73#	9.53	3/8	15.88	5/8	3.18	1/8	15.2	50
P□□0-201-1111-1429		11.11	7/16	14.29	9/16	1.59	1/16	15.2	50
P□□0-201-1270-1588		12.70	1/2	15.88	5/8	1.59	1/16	15.2	50
P□□0-201-1270-1905	82#	12.70	1/2	19.05	3/4	3.18	1/8	15.2	50
P□□0-201-1270-2223	88#	12.70	1/2	22.23	7/8	4.76	3/16	15.2	50
P□□0-201-1588-2064		15.88	5/8	20.64	13/16	2.38	3/32	15.2	50
P□□0-101-1588-2223	184#	15.88	5/8	22.23	7/8	3.18	1/8	7.62	25
P□□0-101-1588-2540	89#	15.88	5/8	25.4	1	4.76	3/16	7.62	25
P□□0-101-1905-2540		19.05	3/4	25.4	1	3.18	1/8	7.62	25
P□□0-101-1905-2858	191#	19.05	3/4	28.58	1-1/8	4.76	3/16	7.62	25
P□□0-101-1905-3175	91#	19.05	3/4	31.75	1-1/4	6.35	1/4	7.62	25
P□□0-101-2540-3175		25.40	1	31.75	1-1/4	3.18	1/8	7.62	25
P□□0-101-2540-3493	92#	25.40	1	34.93	1-3/8	4.76	3/16	7.62	25
P□□0-101-2540-3810		25.40	1	38.10	1-1/2	6.35	1/4	7.62	25

Company Profile

Product portfolio

Chemical Resistance Table

Product Selection guide

Glossary Notes