

# + Innovaprene® F55 / FW60 Peristaltic pump tubing

The F55 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 during the long-term use of the peristaltic pump, ensuring the stability of the liquid transmission flow. At the same time, with a specially developed formula, it has passed the FDA 21CFR 177.2600 test and can transmit and pump water-based food-based media\*. 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.



In addition to passing the FDA 21CFR 177.2600 test, the FW60 series also passed the relevant test of EC No.1935/2004, and the raw materials comply with the EU material access list. The FW60 can be used in transfer and peristaltic pump applications.

## **i** Note

For detailed compatibility with various chemical solvents, please refer to "Innovaprene® Product Chemical Compatibility Information Sheet", and for food contact compliance information, please consult Innovaprene sales staff.

## + Innovaprene® F 55/ FW 60 Product Specification

Food grade peristaltic pump tubing			
<b>Feature</b>	Low hardness peristaltic pump tubing is suitable for low torque miniature peristaltic pumps		
	<ul style="list-style-type: none"> <li>Steady flow</li> <li>Chemical resistance, resistant to dye, detergent, vinegar, etc.</li> <li>UV resistant and opaque</li> <li>-60°C to 140°C temperature range</li> <li>Conforms to FDA and EC No.1935/2004 standards</li> </ul>		
<b>Caution</b>	<ul style="list-style-type: none"> <li>Avoid transferring fatty media</li> <li>Please consult compliance information before transferring food contact media</li> </ul>		
<b>Material</b>	Thermoplastic Elastomer		
<b>Operating temperature range</b>	-60 °C to +140 °C		
<b>Physical properties</b>	Color	F55 Beige	FW 60 White
	Shore A Hardness ASTM D 2240	F55 58A	FW 60 65A
	Density ASTM D792	0.97 g/cm <sup>3</sup>	
	Tensile Strength at Break ASTM D 412	F55 5.8MPa	FW 60 9.5MPa
	Tensile Elongation ASTM D 412	F55 410%	FW 60 800%
	Tear Strength ASTM D 1004-94	F55 17 kN/m	FW 60 30kN/m
	Permanent Compression Set 70°C 22Hrs ASTM D 395	F55 19%	FW 60 25%
<b>Regulations and Certifications</b>	F55 FDA 21CFR 177.2600 FW60 FDA 21CFR 177.2600, EC No. 1935/2004		
<b>Sterilization</b>	121 °C 30 minutes steam sterilization single pass ETO ethylene oxide sterilized single-shot 25kGy irradiation sterilization single time		
<b>Gas permeability</b>	CO <sub>2</sub> 1200	Gas volume [cm <sup>3</sup> ] x well thickness [mm] x 10 <sup>-10</sup>	
	O <sub>2</sub> 200	Inner Diameter Sectional Area [cm <sup>2</sup> ] x Time [sec]	
	N <sub>2</sub> 80	x Pressure drop along pipe wall [cm Hg]	
<b>Odor</b>	none		
<b>Toxicity</b>	none		
<b>Theoretical service life</b>	at 0 bar life	1000 hrs	
	at 0.7 bar	500 hrs	

## + Innovaprene® F55 / FW60 Nomenclature

### Innovaprene® F 55

### PF40-

### Innovaprene® FW 60

### PV60-

\*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