

John Guest®

LLDPE Tubing

The John Guest PE Range of plastic tubing is produced in Linear Low Density Polyethylene for cold and intermittent hot water applications.

Our tubing provides the benefits of a wide range of temperature and pressure suitability, broad chemical compatibility and is made from non contaminating materials. Common applications are in water purification, water conditioners, ice makers and misting systems. LLDPE is more robust than traditional low or medium density polyethylene and is recommended for use with cold and intermittent hot water. Our tubing is made from FDA approved materials and is NSF International certified.

John Guest Polyethylene tubing is designed for use with John Guest Super Speedfit push-in fittings, John Guest Shut-Off Valves and virtually all standard tubing connectors.

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Strongly

Sizes Available

PART NO.	OD	ID	COIL LENGTH	MINI BEND RADII
PE-08-BI-0500F-N	1/4"(0.250")	0.170"	500 FT	1.00"
PE-08-BI-1000F-N	1/4"(0.250")	0.170"	1000FT	1.00"
PE-10-CI-0500F-N	5/16"(0.312")	0.187"	500 FT	1.13"
PE-12-EI-0500F-N	3/8"(0.375")	0.250"	500 FT	1.25"
PE-16-GI-0250F-N	1/2"(0.500")	0.375"	250 FT	2.50"
PE-04025-0100M-N	4mm	2.5mm	100m	25mm
PE-0604-0100M-N	6mm	4mm	100m	25mm
PE-0806-0100M-N	8mm	6mm	100m	30mm
PE-1007-100M-N	10mm	7mm	100m	32mm
PE-1209-100M-N	12mm	9mm	100m	63mm
PE-15115-0100M	15mm	11.5mm	100m	100mm

N denotes natural colour. To request other colours please refer to table below. Popular items are now generally in stock and are available in minimum quantities of 2 coils. Other items may be subject to longer lead times and are available in minimum quantities of 50 coils.

Standard Colours Available

SUFFIX

N
NATURAL



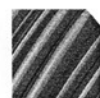
B
BLUE



E
BLACK



R
RED



W
WHITE



Other special colours available on request:-

- Orange (O)
- Green (G)
- Violet (V)
- Yellow (Y)

15mm size only available in Blue, Red and Green.

8mm size only available in Natural, Blue, Black, Red and White.

For other colours we suggest you use 5/16".



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WRAS
APPROVED
PRODUCT



NSF 51
NSF 61

Working Temperatures and Pressures - LLDPE

TUBE OD		TUBE ID	
1/4"	x	0.170"	230 psi @70°F 15 bar @20°C
5/16"	x	0.187"	
3/8"	x	0.25"	
4mm	x	2.5mm	120 psi @150°F 8 bar @ 65°C
6mm	x	4mm	
1/2"	x	0.375"	150 psi @70°F 10 bar @20°C
8mm	x	6mm	
10mm	x	7mm	
12mm	x	9mm	90 psi @150°F 6 bar @65°C
15mm	x	11.5mm	

1 Bar = 14.5 psi (approx.)

Maximum Working Temperature 150°F at pressures shown in chart above. For temperatures above 150°F customers should refer to our Technical Help Desk.

Please note maximum pressure rating for a 'system' depends on the lowest rated component, eg. most John Guest fittings have a different rating from the tube ratings shown above.

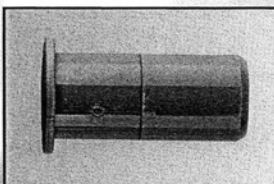
Burst Pressures are approximately 3 times the maximum working pressure.

Pneumatics Applications

John Guest LLDPE tube is suitable for pneumatic applications providing pressure is maximum 10 bar @ 20°C (150psi @ 70°F). At elevated temperatures (50°C+) mineral oil will degrade LLDPE tube and, therefore, LLDPE tube used in pneumatic circuits should be periodically checked and replaced if necessary.

Tube inserts

If the tube is used in a warm water system a tube insert is necessary.



PART NO.	TUBE OD
TSM10N	10
TSM1209S	12
TSM15N	15

Chemical Resistance

For use of LLDPE with chemicals or potentially aggressive liquids, please refer to our Technical Service Department.

NOTE: When using cleaning agents or other potentially aggressive liquids, please ensure compatibility with tubing and fittings. LLDPE is not recommended for mineral oils, gases and fuels or high pressure compressed air / pneumatic systems.

Tube Tolerances

1/4" to 1/2"	+0.001/-0.004"
4mm to 6mm	+0.05/-0.07mm
8mm to 12mm	+0.05/-0.10mm
15mm	+0.10/-0.10mm