Synflex® Diesel Fuel Tubing

4294 Series
4297 Series

Engineered specifically for demanding diesel fuel applications

Applications

- Transportation — Trucks, Buses and Off-Highway Vehicles
- Construction Machinery and Equipment
- Agriculture Machinery and Equipment
- Marine, Boats and Yachts
- Diesel Engines and Parts

Synflex® Diesel Fuel Tubing Construction

High-Flex 4297 Series - Synflex composite fuel tubing is a flexible, thermoplastic elastomer product with a nylon line core tube. It is a non-reinforced, seamless tube, designed and tested for use with barbed fittings and rated for use with diesel fuel in a temperature range of -50°F (-45°C) to + 250°F (122°C).

Low-Flex 4294 Series - Synflex composite fuel tubing is a non-reinforced, seamless, multi-layered product, with a nylon cover and nylon line core tube. It is designed and tested for use with non-crimp, barbed fittings and rated for use with diesel fuel in a temperature range of -40°F (-40°C) to +200°F (93°C).

Features and Benefits

- **Specifically Designed for Diesel Fuel Applications -** Resists chemical attacks seen in a diesel fuel environment. With two series available you can select the best solution for your system and assembly requirements.
- **Thermoforming -** Both series can be installed as individual lines or the tubing can be thermoformed to provide a consistent, trouble-free installation process. *Example: Figure A*
- **Multiple Colors -** Color-coded flow lines allow for easy identification for error-free assembly and repair.
- **Barbed Fittings -** Barbed inserts with o-ring sealing end connections provide a leak-free system. No retaining clips, crimping or swaging is required. Seals on the inside of the tube, eliminating the need for outside surface preparation.

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Figure A

4294 - Low-Flex Series

Part Number	Equivalent Size O.D. mm	Equivalent Size O.D. in	Nominal O.D. mm	Nominal O.D. in	Nominal Wall Thickness mm	Nominal Wall Thickness in	Weight Kg/100m	Weight lbs/100ft	Minimum Burst Pressure bar	Minimum Burst Pressure psi	Vacuum Rating in Hg	Max. Oper. Pressure bar	Max. Oper. Pressure psi	Min. Bend Radius mm	Min. Bend Radius in
4294-06	9.50	3/8	9.91	.390	1.78	.070	4.46	3.00	34.47	500	20	5.17	75	28.7	1.13
4294-07	11.11	7/16	11.17	.440	1.78	.070	5.06	3.40	34.47	500	20	5.17	75	31.7	1.25
4294-08	12.70	1/2	13.33	.525	1.90	.075	6.70	4.50	34.47	500	20	5.17	75	76.2	3.00
4294-10	15.87	5/8	17.14	.675	2.54	.100	10.86	7.30	34.47	500	20	5.17	75	88.9	3.50

4297 - High-Flex Series

Part Number	Equivalent Size O.D. mm	Equivalent Size O.D. in	Nominal O.D. mm	Nominal O.D. in	Nominal Wall Thickness mm	Nominal Wall Thickness in	Weight Kg/100m	Weight lbs/100ft	Minimum Burst Pressure bar	Minimum Burst Pressure psi	Vacuum Rating in Hg	Max. Oper. Pressure bar	Max. Oper. Pressure psi	Min. Bend Radius mm	Min. Bend Radius in
4297-06	9.52	3/8	9.91	.390	1.78	.070	4.62	3.10	34.47	500	20	3.45	50	28.7	1.13
4297-07	11.11	7/16	11.17	.440	1.78	.070	5.22	3.50	34.47	500	20	3.45	50	44.4	1.75
4297-08	12.70	1/2	13.33	.525	1.90	.075	7.30	4.90	27.58	400	20	3.45	50	63.5	2.50
4297-10	15.87	5/8	17.14	.675	2.54	.100	11.03	7.40	27.58	400	20	3.45	50	76.2	3.00

Standard Compliance

- Portions of: SAE J844, J1131, J1394
- ASTM D471, 0624, 0638, D648, 0709, 0746, 0742, 02240

Fluid Compatibility

- Performance tested using ASTM
- Fuels Band B and F, ASTM #3 oil and brake fluids
- Compatible with B20 biodiesel fuel

Operating Temperature Range

- 4294 - Low-Flex Series: -40˚C (-40˚F) to +93˚C (+200˚F)
- 4297 - High-Flex Series: -45˚C (-50˚F) to +122˚C (+250˚F)

Packaging Information

Low-Flex	O.D.	Color	Packaging
4294-061F2	-06	Silver	100′ coil in box
4294-07102	-07	Black	100′ coil in box
4294-08102	-08	Black	100′ coil in box
4294-081D2	-08	Purple	100′ coil in box
4294-081F2	-08	Silver	100′ coil in box

High-Flex	O.D.	Color	Packaging
4297-061F2	-06	Silver	100′ coil in box
4297-081F2	-08	Silver	100′ coil in box
4297-10102	-10	Black	100′ coil in box
4297-101F2	-10	Silver	100′ coil in box

Kits	O.D.	Color	Packaging	Fittings
4KGEN-08-001	-08	Black/Silver	2-15′ Coils	8 -1/2″ Voss
4KGEN-10-001	-10	Black/Silver	2-15′ Coils	8 -5/8″ Voss

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