



Cleanroom Manufactured

Autoclavable
Biomedical Tubing

Translucent
USP Class VI

Flexelene™ 135C

Autoclavable ~ Bioprocess / Pharmaceutical
Flexelene™ 135C



135C

Thermoplastic Elastomer

- No animal derived components
- USP Class VI, FDA compliant
- ISO 10993-4 • non-hemolytic, ISO 10993-5 • non-cytotoxic
- Autoclave to 135 °C • EtO sterilization • gamma sterilization to 45 kGy
- Withstands multiple autoclave cycles
- Temperature range: -50 °C to +135 °C (-58 °F to +275 °F)
- Ultra-low extractables / leachables
- Soft and flexible - Shore A 68
- Contains no DEHP phthalates or plasticizers
- Low permeability - Barrier O₂ (CC/MIL/100 | N₂ /ATM/Day) = 2260
- Low protein binding

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Flexelene™ 135C

Peristaltic Pump Compatible TPE Tubing

Cleanroom Manufactured

- Laser etched with part and size identification • Custom etching options include material lot number for traceability or no etching.



3000+ hrs.

135 °C

Tube Number	ID		OD Nominal		Wall	Standard Roll
FLXC .5-1.5	1/32"	.0312"	3/32"	.093"	1/32"	50 ft.
FLXC 1-2	1/16"	.0625"	1/8"	.125"	1/32"	50 ft.
FLXC 1.5-2.5	3/32"	.0937"	5/32"	.156"	1/32"	50 ft.
FLXC 2-3	1/8"	.125"	3/16"	.187"	1/32"	50 ft.
FLXC 2-4	1/8"	.125"	1/4"	.250"	1/16"	50 ft.
FLXC 3-4	3/16"	.187"	1/4"	.250"	1/32"	50 ft.
FLXC 3-5	3/16"	.187"	5/16"	.312"	1/16"	50 ft.
FLXC 4-6	1/4"	.265"	3/8"	.390"	1/16"	50 ft.
FLXC 4-8	1/4"	.265"	1/2"	.510"	1/8"	50 ft.
FLXC 5-7	5/16"	.323"	7/16"	.448"	1/16"	50 ft.
FLXC 6-8	3/8"	.385"	1/2"	.510"	1/16"	50 ft.
FLXC 6-10	3/8"	.385"	5/8"	.635"	1/8"	50 ft.
FLXC 8-10	1/2"	.510"	5/8"	.635"	1/16"	50 ft.
FLXC 8-12	1/2"	.510"	3/4"	.760"	1/8"	50 ft.
FLXC 10-14	5/8"	.635"	7/8"	.885"	1/8"	50 ft.
FLXC 12-16	3/4"	.760"	1"	1.010"	1/8"	50 ft.
FLXC 16-20	1"	1.010"	1 1/4"	1.260"	1/8"	50 ft.

Temp. Range: -50 °C to 135 °C (-58 °F to +275 °F) • Shore A 68 hardness

No halogens or phthalates

Brittle temp. -88 °F

Thermally weldable

Animal Derivative Free

Autoclave, gamma and EtO sterilization

Permeability 2260 - Barrier O₂ (CC/MIL/100 | N₂ /ATM/Day)

Low protein binding

Non-pyrogenic material

Peristaltic pump compatible

Good chemical resistance

NEW! Flexelene™ 121C • A softer version of Flexelene™ 135C with a lower Shore A hardness of 54. 121C is autoclavable to 250 °F (121 °C) and withstands temperatures that approach 275 °F.



Animal Derivative Free Components

RoHS Compliant



ISO 9001
Quality System

Flexelene™ 135C

FLXC 135 - Pressure Test Performance Data

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ATSM D1599-99(2011) Temperature 72 °F ±2°.

3000+ hrs.

Tube Number	ID	OD	Failure PSI	Failure Cause	Test Temp.
FLXC 3mm-4.1mm	3mm	4.1mm	60.06	ballooning	72.4 °F
FLXC 4mm-5.6mm	4mm	5.6mm	46.90	ballooning	73.2 °F
FLXC .5-1.5	1/32"	3/32"	87.28	ballooning	74.0 °F
FLXC 1-2	1/16"	1/8"	136.24	ballooning	72.2 °F
FLXC 1.5-2.5	3/32"	5/32"	87.28	ballooning	74.0 °F
FLXC 2-3	1/8"	3/16"	68.08	ballooning	73.8 °F
FLXC 2-4	1/8"	1/4"	107.18	ballooning	72.4 °F
FLXC 3-4	3/16"	1/4"	45.12	ballooning	72.4 °F
FLXC 3-5	3/16"	5/16"	81.34	ballooning	72.4 °F
FLXC 4-6	1/4"	3/8"	60.22	ballooning	72.4 °F
FLXC 4-8	1/4"	1/2"	132.64	ballooning	72.4 °F
FLXC 5-7	5/16"	7/16"	53.90	ballooning	72.4 °F
FLXC 6-8	3/8"	1/2"	49.78	ballooning	72.4 °F
FLXC 6-10	3/8"	5/8"	54.02	ballooning	72.5 °F
FLXC 8-12	1/2"	3/4"	63.18	ballooning	72.4 °F
FLXC 10-14	5/8"	7/8"	82.78	ballooning	72.4 °F
FLXC 12-16	3/4"	1"	45.74	ballooning	72.4 °F
FLXC 16-20	1"	1 1/4"	32.7	ballooning	72.1 °F

Note: Tube failure psi will generally decrease with an increase in temperature - plastic materials soften at higher temperatures and cause the tubing to fail at a lower pressure.

Always allow a sufficient buffer between the failure point and working pressure based upon the tubing application and operating temperature. The above data are presented only as guidelines and do not represent recommended working pressures for tubing used in a specific application.

Tubing Temp. Range: -50 °C to 135 °C (-58 °F to +275 °F) • Shore A 68 hardness

Autoclave, gamma and EtO sterilization



Animal Derivative Free
Components



Quality System