Tubing Properties

Material	PVC	Silicone	Pharmed [°]	Isoversinic (Viton [®])
Composition	Polyvinyl chloride	Silicone elastomer	Polypropylene- based material with plasticizer	Fluorinated elastomer
Physical Characteristics	Transparent, clear, rigid	Transluscent, beige	Opaque, beige	Opaque, black
Temperature Range	up to 94°C	up to 230°C	−60 to 135°C	−20 to 200°C
Standards	-	_	FDA food quality (FDA 21CFR 177.26000). USP class VI	-
Gas Permeability	Low	High	Low	Impermeable to most gases
Sterilization	Autoclaving	Autoclaving or irradiation	Autoclaving	Autoclaving
Internal Diameter Range	0.25 to 8 mm	0.64 to 7 mm	0.5 to 6.4 mm	0.5 to 6.0 mm
Other Features	Low cost	Excellent biocompatibility; not recommended with strong acids, bases, or solvents	Long service life	Excellent resistance to strong acids, oxidizing agents, and aromatic and chlorinated solvents
Applications	General use	Biological	Pharmaceutical and food	Where high chemical resistance is required (e.g., ICP)

Warning: Minipuls 3 Peristaltic Pump is not certified for direct connection to human subjects.

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