



CleargreenPure

Tubing for Advanced Therapies

Cleargreen®Pure has been formulated specifically to advance the standard of Polyvinyl chloride (PVC) tubing used in Blood Collection and Cell and Gene Therapy. PVC remains the standard in these applications. Cleargreen®Pure addresses the need for a sustainable, plant derived material that is DEHP free, gamma stable and is compatible with aseptic welders and sealers. It has been extensively studied, for its superior toxicological and physiochemical profile.

Features

Plant derived / Animal derivative free

DEHP free

Non-phthalate (TOTM plasticized)

BPA free

Gamma stable

Compatible with aseptic welding and sealing machines.

Crystal clear

Applications

Pharmaceutical Processing Medical Device

Cell culture expression

Blood collection

Cell harvesting

IV solutions

Cell separation and washing

Chemotherapy drug delivery

Media transfer

Dialysis equipment

Compliance*

Biocompatibility - USP Class VI <87>, <88>

Endotoxin - USP <85>

Hemocompatibility - ISO 10993-4

Material characterization - USP <661.1>

Particles - USP <788>

Weldability – Particle shedding / intrusion / tensile

EC, 1907 / 2006 (REACH)

Extractable data - USP<665>

Sterilization

Gamma (<45 kGy)

E-beam

Ethylene oxide (ETO)

* Please visit our website for additional literature, regulatory information, and other technical resources: sanisure.com/resources

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
• Density / Specific gravity	1.8	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
• Tensile strength (100% Strain)	5.31	MPa	ASTM D638
• Tensile strength (break)	15.0	MPa	ASTM D638
• Tensile elongation (break)	410	%	ASTM D638
Mechanical	Nominal Value	Unit	
Durometer hardness			
• 15 sec. operating stand	65	Shore A	ASTM D2240
• 15 sec. hand held	70	Shore A	ASTM D2240