

# Solutran Plus®

## Technical sheet

### Medical Grade PVC Granule-Lay Flat Tubing- Tube for Infusional Sector: Container for Infusional Solution - Haemodialysis - Peritoneal Dialysis

#### CHEMICAL SPECIFICATIONS Eur. Ph. Sez. 3.1.1.1

##### FORMULATION

Poly(vinyl chloride)	> 55%
Di(2-ethylhexyl)phtalate	< 40%
Epoxidised soya oil	< 5%
N,N'-diacylethylenediamines	< 1%
Calcium stearate	< 1%

##### TEST

##### LIMIT VALUE

Vinyl chloride	1,0 ppm
Appearance	Clear, Colourless
Alkalinity	1,0 ml HCl 0.01 M
Acidity	1,5 ml NaOH 0.01 M
Reducing Substances	2,0 ml Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 0.01 M
UV Absorption	0,25 250-310nm
Residue on Evaporation	0,3%
Barium	5,0 ppm
Cadmium	0,6 ppm
Heavy Metals	50,0 ppm
Calcium	0,07%
Tin	20,0 ppm
Zinc	0,2%

Small color differences depend only  
from the color tone of the PVC resin

#### PHYSICAL PROPERTIES

TEST	VALUE	UNIT	REFEREN.
Appearance	Omogeneous granules		
	Omogeneous Film		
	Natural Colour		
	Crystal Colour		
	Contamination Free		
	Burned Point Free		
Hardness	83	Shore A	ISO 868
Tensile strenght at break	170	Kg/cm <sup>2</sup>	ISO R527
Elongation at break	300	%	ISO R527
Temperature of stiffening	-9	°C	ISO R458
Density	1,24	g/cm <sup>3</sup>	ISO R1183

#### BIOLOGICAL RECTIVITY UNI EN ISO 30993

TEST	IN CONFORMITY
Irritation	Yes
Cytotoxicity	Yes
Implantation	Yes
Hermolysis	Yes
Systemic Toxicity	Yes