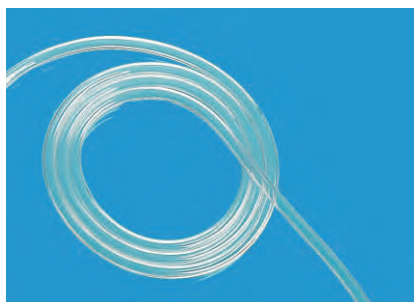




MEDICAL

- PVC Compound
- Film / Tube
- TPE Compound

做一流的 医用高分子材料供应商

ABOUT LICO

Lico Medical is a very professional brand owned by Tianbo Medical Co. Limited on raw material and accessories for disposal plastic medical products. We focus on selling medical grade plastic raw material and components.

Lico Medical have 10series of medical PVC compound, medical film, medical tube and related products. Medical components and tubes include kinds of connectors on blood circuit for haemodialysers, Oxygen mask, Nasal Oxygen Tubes, Catheters of different types, IV set, extension tube, urine bags. various kinds of components on disposal plastic medical equipment.

All the products' development, production, store totally in accordance with ISO13485:2016. Lico Medical works with OEM factory to develop and manufacture qualified products, provide more scientific, efficient medical technology. Currently Lico Medical adopts modern enterprise management standard, cooperating with the manufacturer of equipment, striving to seek the best way to improve the quality and product capacity. The company always conducts the principle of "High Efficiency, People Oriented Quality First", adhering to the quality is everything, being committed to build an advanced and first-class medical plastic material supplier in the world.



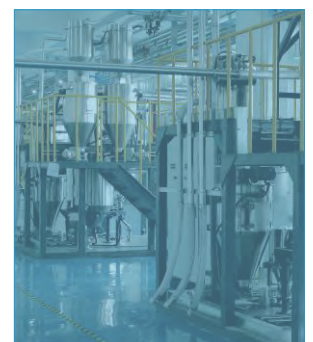
10+
series of products

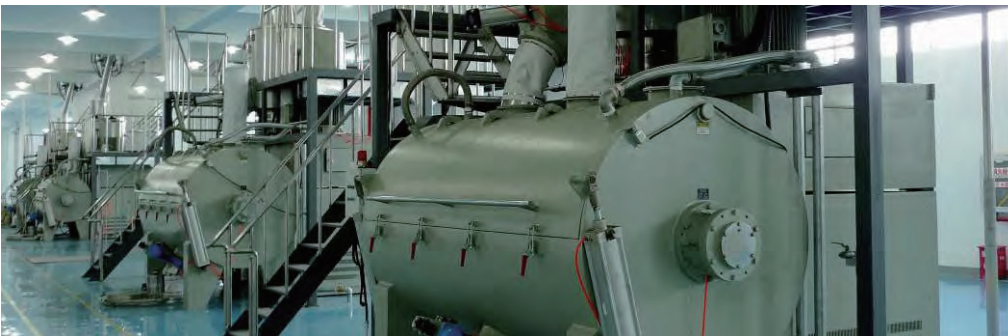
300+
application customers



1000+
formula

50000+
MT/year capacity





*To be The Leading
Medical Polymer Material Supplier*

About Products

■ Medical PVC Compound Common Specification and Application

Plasticizers	Applied Processing Method	Hardness	Applied Sterilization Method	Main Application
Phthalate/Phthalate Free	Extrusion	50-100A	ETO, Steam, Radiation	Blood circuit, infusion circuit, breathing catheter, tubing, etc.
	Injection	40-95A 65D-80D	ETO, Steam, Radiation	All kinds of injection parts for medical devices
	Rolling Film/Flow Casting Film	50-80A	ETO, Steam, Radiation	Blood container, Nutrient solution bag, drainage bag, etc.

Special Specification and Application

Plasticizers	Special Property	Main Application
Phthalate/Phthalate Free	Cold-resistant	Applied to products used in low temperature
	High transparency	Require high transparency catheters
	High elastic	Pump tube, precise infusion accessories
	X-ray imaging	Catheters be seen under X-ray
	Light-resistant	Multi-layer infusion apparatus (no contact with drugs or liquids)

■ Medical Film Specification and Application

Material	Processing	Thickness	Width	Main Application
PVC, EVA	Rolling Film	0.12~0.45	100-900	Blood film/bag, Nutrient solution film/bag, drainage film/bag
	Flow Casting Film	0.20~0.45	100-400	Blood film/bag, Nutrient solution film/bag, drainage film/bag

■ Medical Tube Specification and Application

Material	Processing Method	Thickness (mm)	Main Application
PVC, TPE, TPU, EVA	One layer	1.50-30.00	All kinds of tubing
	Multi layer	2.00-10.00	Light-resistant tube blocking tube

■ Medical TPE Compound

Hopefinder can develop all kinds of extrusion grade and injection grade TPE granules according to customers' requirements for the manufacturing of medical devices.



Core Competency

■ Safe and Stable

Security as the foundation of sustainable development

■ Biocompatibility test

■ Sustainable Development

■ High Quality Raw Materials

■ Manufacture and Quality

Advanced manufacturing to ensure high product quality

■ Advanced Manufacturing

■ Strict Specification

■ Strict monitoring system throughout whole production

■ R&D and Innovation

Professional team pursuing continuous research, development and innovation

■ Professional Team

■ Integrated Equipment

■ Abundant Accomplishment

■ Sharing and Win-Win Cooperation

Considerate service and information sharing to create a win-win cooperation

■ Considerate Service

■ Win-win Cooperation

■ Prime Customers

World Class Quality Made in China

因为专业 所以更好

Products Application

Extracorporeal blood circuit
for haemodialysers



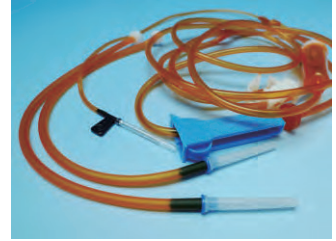
Blood Containers and
Parenteral Nutrient Containers



Transfusion Appliance



Photophobic infusion



Oxygen Mask



Endotracheal Intubation



Nasal Oxygen Tubes



Injection Molding Accessories



catheters of different kinds

- Advanced processing technic for producing medical PVC compound to assure the quality and appearance
- Excellent thermostability and flowability provide high efficiency for our customers during production period
- Superior transparency and smoothness makes appearance of our products more attractive

Medical PVC Compound

Extracorporeal Blood Circuit for Haemodialysers Series

Introduction

This series of compounds is applicable for producing pump tube, transfusion tube, elastic transfusion tube and dropper etc., which form the extracorporeal blood circuit for haemodialysers for single use.

Features

- Excellent heat stability and processability
- Excellent retentivity of pump tube flow rate
- Two categories including phthalate and non-phthalate
- Be compatible with ethylene oxide, steam and γ 、 β radiation sterilization

Compound and Properties

Product Application and Model		Transfusion Tube	Elastic Transfusion Tube	Elastic Transfusion Pump Tube	Transfusion Dropper
		M-3072 NP-3072	ME-3183 ME-3283 NPE-3183 NPE-3283	ME-3283 NPE-3283	M-3062 NP-3062 RMI-2308 RMI-2308T
Properties					
Executive Standard: GB15593-1995		Test Value			
Physical Properties	Appearance	Transparent and Uniformed Particles			
	Hardness (ShoreA)	≤80A	≤80A	≤80A	>80A OR 80D
	Tensile Strength (Mpa) ≥	13	13	13	18
	Elongation ≥	250	300	300	200
	Thermostability(180℃) min ≥	40	40	40	40
Aqueous Extract Chemical Properties	Reductive Matter mL/20MI (c=0.1mol/L1/5KMnO ₄) ≤	0.3	0.3	0.3	0.3
	△pH ≤	1	1	1	1
	Color	Clear			
	Heavy Metal (μg/mL) ≤	0.3	0.3	0.3	0.3
	Non-volatile Matter (mg/100mL) ≤	2	2	2	2
	Zn Content (μg/mL) ≤	0.4	0.4	0.4	0.4
	UV Absorption(230-360nm) ≤	0.3	0.3	0.3	0.3
Granule Chemical Properties	Ash (mg/g) ≤	1	1	1	1
	VCM Content (μg/g) ≤	1	1	1	1
Biological Properties		Meet with the National standard GB 15593-1995			
Environment Protection	Phthalate Content(6P) in Non-phthalate Compound	Total Content of DEHP、DBP、BBP ≤ 1000ppm Total Content of DNOP、DIDP、DINP ≤ 1000ppm			

Medical PVC Compound

Extracorporeal Blood Circuit for Haemodialysers Series

Introduction

This series of compounds is applicable for producing pump tube, transfusion tube, elastic transfusion tube and dropper etc., which form the extracorporeal blood circuit for haemodialysers for single use.

Features

- Excellent heat stability and processability
- Excellent retentivity of pump tube flow rate
- Two categories including phthalate and non-phthalate
- Be compatible with ethylene oxide, steam and γ 、 β radiation sterilization

Compound and Properties

Product Application and Model		Transfusion Tube	Elastic Transfusion Tube	Elastic Transfusion Pump Tube	Transfusion Dropper
		M-3072 NP-3072	ME-3183 ME-3283 NPE-3183 NPE-3283	ME-3283 NPE-3283	M-3062 NP-3062 RMI-2308 RMI-2308T
Properties					
Executive Standard: GB15593-1995		Test Value			
Physical Properties	Appearance	Transparent and Uniformed Particles			
	Hardness (ShoreA)	≤80A	≤80A	≤80A	>80A OR 80D
	Tensile Strength (Mpa) ≥	13	13	13	18
	Elongation ≥	250	300	300	200
	Thermostability(180℃) min ≥	40	40	40	40
Aqueous Extract Chemical Properties	Reductive Matter mL/20MI (c=0.1mol/L1/5KMnO ₄) ≤	0.3	0.3	0.3	0.3
	△pH ≤	1	1	1	1
	Color	Clear			
	Heavy Metal (μg/mL) ≤	0.3	0.3	0.3	0.3
	Non-volatile Matter (mg/100mL) ≤	2	2	2	2
	Zn Content (μg/mL) ≤	0.4	0.4	0.4	0.4
	UV Absorption(230-360nm) ≤	0.3	0.3	0.3	0.3
Granule Chemical Properties	Ash (mg/g) ≤	1	1	1	1
	VCM Content (μg/g) ≤	1	1	1	1
Biological Properties		Meet with the National standard GB 15593-1995			
Environment Protection	Phthalate Content(6P) in Non-phthalate Compound	Total Content of DEHP、DBP、BBP ≤ 1000ppm Total Content of DNOP、DIDP、DINP ≤ 1000ppm			

Medical PVC Compound

Blood Containers and Parenteral Nutrient Containers Series

Introduction

This series of compounds is applicable for producing blown film and calendered film, which are used in production of plastics collapsible containers for human blood and blood components and parenteral nutrient containers for single use.

Features

- Excellent cold-resistant performance
- The compound of non-phthalate is more suitable for fat-soluble nutrient
- Be compatible with ethylene oxide, steam sterilization

Compound and Properties

Product Application and Model		Transfusion Film
Properties		ME-3192 NPE-3192
Executive Standard: GB15593-1995		Test Value
Physical Properties	Appearance	Transparent and Uniformed Particles
	Hardness (ShoreA)	≤80A
	Tensile Strength (Mpa) ≥	13
	Elongation(%) ≥	250
	Thermostability (180℃) min ≥	40
	Water Absorption Rate ≤	0.3
Aqueous extract Chemical Properties	Reductive Matter mL/20MI (c=0.1mol/L1/5KMnO4) ≤	0.3
	△pH ≤	1
	Color	Clear
	Heavy Metal (µg/mL) ≤	0.3
	Non-volatile Matter (mg/100mL) ≤	2
	Zn Content (µg/mL) ≤	0.4
	UV Absorption (230-360nm) ≤	0.3
Granule Chemical Properties	Ash (mg/g) ≤	1
	VCM Content (µg/g) ≤	1
Biological Properties		Meet with the National standard GB15593-1995
Environment Protection	Phthalate Content(6P) in Non-phthalate Compound	Total Content of DEHP、DBP、BBP ≤ 1000ppm Total Content of DNOP、DIDP、DINP ≤ 1000ppm

Medical PVC Compound

Breathing Product – Anaesthetic Mask Series

Introduction

This series of compounds is applicable for producing rigid anaesthetic mask, semi-rigid anaesthetic mask, air sac pad and catheters, which are used in disposable anaesthetic mask etc.

Features

- Nearly scentless
- Excellent transparency and appearance
- Outstanding hand feel and flexibility
- Two categories including phthalate and non-phthalate
- Be compatible with ethylene oxide and γ 、 β radiation sterilization

Compound and Properties

Product Application and Model		Rigid Anaesthetic Mask	Semi-rigid Anaesthetic Mask	Air Sac Pad	Catheter
Properties		RMI-3302 RMI-3302TD	MI-3095 MI-3095TD	MB-3060 MB-3060TD	MT-3076 MT-3076TD
Executive Standard: Enterprise Standard		Transparent and Uniformed Particles			
Physical Properties	Appearance	80D	95A	≤80A	≤80A
	Hardness (ShoreA)	-	18	8	13
	Tensile Strength (Mpa) ≥	-	200	250	250
	Elongation % ≥	70	-	-	-
	VST (°C) ≥	83	-	-	-
	Transmittance(%)≥	5	-	-	-
	Haze (%) ≤	25	-	-	-
	IZOD (23°C) KJ/m ² ≥	-	40	40	40
	Thermostability (180°C) min ≥	-	-	0.3	0.3
Aqueous Extract Chemical Properties	Reductive Matter mL/20mL (c=0.1mol/L1/5KMnO4) ≤	-	-	1	1
	△pH ≤	≤ grade 2			
	Intracutaneous Reaction	The difference between the test sample and the vehicle blank mean score ≤ 1.0			
Environment Protection	Sensitization Reaction	≤ grade 1			
	Phthalate Content(6P) in Non-phthalate Compound	Total Content of DEHP、DBP、BBP ≤ 1000ppm Total Content of DNOP、DIDP、DINP ≤ 1000ppm			

Medical PVC Compound

Breathing Product – Oxygen Mask Series

Introduction

This series of compounds is applicable for producing injection masks, connector, catheter and nasal adapter, which are used in one-off oxygen mask and one-off nasal oxygen tubes etc.

Features

- Nearly scentless
- Excellent transparency and appearance
- Outstanding hand feel and flexibility
- Two categories including phthalate and non-phthalate
- Be compatible with ethylene oxide and γ 、 β radiation sterilization

Compound and Properties

Product Application and Model		Oxygen Mask	Connector	Nasal Adapter
Properties		MI-3072 NP-3072 NP-3052 And MI-,MI-T series	M-3082 NP-3082 NP-3051 And MT-,MT-T series	EMI-3245 EMI-3245TD
Executive Standard:Enterprise Standard		Test Value		
Physical Properties	Appearance	Transparent and Uniformed Particles		
	Hardness (ShoreA)	≤80A	≤80A	≤80A
	Tensile Strength (Mpa) ≥	10	10	13
	Elongation ≥	250	250	250
	Thermostability (180℃) min ≥	40	40	40
Aqueous Extract Chemical Properties	Reductive Matter mL/20mL (c=0.1mol/L1/5KMnO4) ≤	0.3	0.3	0.3
	△pH ≤	1	1	1
Biological Properties	Cytotoxicity	≤ grade 2		
	Intracutaneous Reaction	The difference between the test sample and the vehicl score ≤ 1.0		
	Sensitization Reaction	≤ grade 1		
Environment Protection	Phthalate Content(6P) in	Total Content of DEHP、DBP、BBP ≤ 1000ppm		
	Non-phthalate Compound	Total Content of DNOP、DIDP、DINP ≤ 1000ppm		

Medical PVC Compound

Breathing Product – Endotracheal Intubation Series

Introduction

This series of compounds is applicable for producing all kinds of intubation tubes with different hardness and properties, including all kinds of one-off tracheal intubation products.

Features

- Excellent transparency and easy machining
- Outstanding resistance to bend
- Combination property is similar as imported compound
- Two categories including phthalate and non-phthalate
- Be compatible with ethylene oxide and γ 、 β radiation sterilization

Compound and Properties

Product Application and Model		Tracheal intubation	Air Inflation tube	Air Inflation balloon	Check value
Properties		MT-8513 MT-8713 MT-7513 MT-7513TD MT-8513TD MT-8713TD	MT-3086 EMT-3090 MT-3086TD MT-3090TD	EMB-3165M EMB-3165M/TD	RMI-2301 RMI-2301T
Executive Standard:Enterprise Standard		Test Value			
Physical Properties	Appearance	Transparent and Uniformed Particles			
	Hardness (ShoreA)	≤ 80A	≤ 80A	65A	80D
	Tensile Strength (Mpa) ≥	18	18	12	
	Elongation) ≥	200	200	300	-
	VST (°C) ≥	-	-	-	70
	Transmittance (%)≥	-	-	-	83
	Haze (%) ≤	-	-	-	5
	IZOD (23°C) KJ/ m² ≥	-	-	-	25
	Thermostability(180°C)min≥	40	40	40	40
Aqueous Extract Chemical Properties	Reductive Matter mL/20mL (c=0.1mol/L1/5KMnO4)≤	0.3	0.3	0.3	-
	△pH ≤	1	1	1	-
Biological	Cytotoxicity	≤ grade 2			

Medical PVC Compound

Nebulizer Series

Introduction

This series of product is used to manufacture oxygen tube, masks, and connectors used for nebulizer

Features

- Nearly odorless
- Excellent transparency and appearance
- Excellent feel and softness
- Includes both phthalate and phthalate-free categories
- Compatible with ethylene oxide, steam, and γ 、 β radiation sterilization

Compound and Properties

Product Application and Model		Mask		Tube	
		MI-3065	MI-3075	MT-3070	MT-3080
		MI-3065TD	MI-3075TD	MT-3070TD	MT-3080TD
		MI-4065	MI-4075	MT-4070	MT-4080
		MI-4065TD	MI-4075TD	MT-4070TD	MT-4080TD
Properties					
Executed Standard: Company Standard		Standard Values			
Physical Properties	Appearance	Transparent and Uniform Pellets			
	Typical Hardness (15s Reading) SA	65 $\pm$ 3	75 $\pm$ 3	70 $\pm$ 3	80 $\pm$ 3
	Tensile StrengthMpa $\geq$	10	13	13	16
	Elongation% $\geq$	250	250	250	250
	Thermostability(180°C) min $\geq$	40	40	40	40
Aqueous Extract Chemical Properties	Reductive Matter mL/20mL (c=0.1mol/L1/5KMnO4) $\leq$	0.3	0.3	0.3	0.3
	Δ pH $\leq$	1	1	1	1
Biological Properties	Cytotoxicity	$\leq$ grade 2			
	Intracutaneous Reaction	The difference between the test sample and the vehicle blank mean score $\leq$ 1.0			
	Allergic Reaction	$\leq$ grade 1			
Environmental Properties	Phthalate Content(6P) in Non-phthalate Compound	Total Content of DEHP、DBP、BBP $\leq$ 1000ppm; Total Content of DNOP、DIDP、DINP $\leq$ 1000ppm			

Medical PVC Compound

Peritoneum Dialysis Series

Introduction

This series of product is mainly used to manufacture solution bags, waste solution bags, double row tubes for peritoneum dialysis purpose.

Features

- Excellent dimensional stability
- Excellent transparency and exterior qualities
- Includes both phthalate and phthalate-free categories
- Compatible with steam sterilization

Compound and Properties

Product Application and Model		Solution Bag	Waste Solution Bag	Double Row Tube
		ME-3192	M-6166	ME-3183
		NPE-3192	NPE-3192	NPE-3183
Executed Standard: GB15593-1995		Standard Values		
Physical Properties	Appearance	Transparent and Uniform Pellets		
	Hardness (15sReading) SA	76±3	76±3	76±3
	Tensile Strength (Mpa) ≧	13	13	13
	Elongation% ≧	250	250	250
	Thermostability (180℃) min ≧	40	40	40
Aqueous Extract Chemical Properties	Reductive Matter mL/20mL (c=0.1mol/L1/5KMnO ₄) ≧	0.3	0.3	0.3
	△pH ≧	1	1	1
	Color	Transparent and Colorless		
	Heavy Metal (μg/mL) ≧	0.3	0.3	0.3
	Nonvolatile Matter(mg/100mL) ≧	2	2	2
	Zinc (μg/mL) ≧	0.4	0.4	0.4
	UV Absorption(230-360nm) ≧	0.3	0.3	0.3
Compound Chemical Properties	Ashes (mg/g) ≧	1	1	1
	Vinyl Chloride Monomer (μg/g) ≧	1	1	1
Biological Properties		Compatible with GB 15593-1995, table 4		
Environmental Properties	Phthalate 6P Content in Phthalate-free Product	Total Content of DEHP,DBP,BBP ≧ 1000ppm Total Content of DNOP,DIDP,DINP ≧ 1000ppm		

Medical PVC Compound

Light-resistant Infusion Series

Introduction

This series of compounds is applicable for producing light-resistant infusion sets for single use, including multilayer light-resistant tube and light-resistant dropper. It is worth noting that the light-resistant layer is not in touch with drugs or fluids. The physical properties, chemical properties and biological properties meet with GB 18458.3-2005 and GB 15593-1995.

Features

- Excellent light-resistant and transparency
- Two categories including phthalate(DEHP) and non-phthalate(TOTM)
- Be compatible with ethylene oxide sterilization

Compound and Properties

Properties		Product Application and Model	Elastic Light-resistant Infusion Tube	Light-resistant Infusion Dropper
			ME-3283LR	M-3061LR
			NPE-3283LR	NP-3061LR
Physical & Chemical Items		Test Value		
Physical Properties	Color	□Malt Yellow □Orange □Brown		
	Hardness (ShoreA)	≤80A		
	Tensile Strength (Mpa) ≥	13		
	Elongation ≥	250		
	Thermostability(180℃) min ≥	40		
Photophobic Properties	Transmittance (290nm~550nm)	15		
	Color Fading Test	Meet with GB18458.3-2005		
Aqueous Extract Chemical Properties	Reductive Matter mL/20MI (c=0.1mol/L1/5KMnO4) ≤	0.3		
	△pH ≤	1		
	Heavy Metal(μg/mL) ≤	0.3		
	Non-volatile Matter(mg/100mL) ≤	2		
	UV Absorption(230-360nm) ≤	0.3		
Granule Chemical Properties	VCM Content (μg/g) ≤	1		
Biological Properties		Meet with the National standard GB15593-1995		
Environment Protection	Phthalate Content(6P) in Non-phthalate Compound	Total Content of DEHP、DBP、BBP≤1000ppm Total Content of DNOP、DIDP、DINP≤1000ppm		

Package

Kraft bag lined with PE bag: 25 kg/unit
PP woven bag: 600 to 1000 kg/unit

Storage Requirements

Stored in dry room and under 40℃
Avoid straight sunlight
Away from heat

Technical Support

For any further technical information, please contact our technical department and ask for the MSDS and Spec.

Disclaimer

If the compound introduction mentioned in the content shall be changed, there won't be any further

included.



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