Safety
Medical Care
Health
Certification
Technique
Honest

for **Medical Applications**

NAN YA PVC Compounds

by **NAN YA PLASTICS CORPORATION**

We are your best partner .....

Formosa Petrochemical Park of Taiwan

PROFILE

Nan Ya Plastics Corporation, a member of the Formosa Plastics Group (FPG), was found in 1958. We believe that a good management foundation is critical to the stable and efficient operation of an enterprise. At Nan Ya Plastics Corporation, our culture is to operate on this basis of evidence and facts. Moreover, honesty and sustainability also sit at the heart of our business strategy. These principles are what has continued to drive Nan Ya forward. Indeed, Nan Ya has continued to be a successful corporation as reflected by our reputation and excellence in all of our products.

Nan Ya have a primary focus on four specific domain of products: plastics, petrochemical, electronic materials and polyester fibre products. We have been producing PVC compounds at Jen- Wu plant in Kaohsiung since 1973 and we acquired ISO 9001, 14001, 18001 and 13485 certification.

Jen- Wu Plant in Kaohsiung

LOOKING AHEAD

We are a dedicated and professional company that value integrity and sustainability highly. Our continued effort into the development of body catheter and blood transfusion system bags all contribute to our expanding range of products. We value the needs of our customer highly and with our technologies and understanding of plastics manufacturing, we have the utmost confidence that we can provide solutions for all our customers in global.

Formosa Headquarter of Taipei

REGULATION & STANDARD

The PVC compounds R&D team follow stringent guideline and we select only the raw materials that have been subject to rigorous and thorough evaluations. They must also have met the criteria set out by the European Pharmacopoeia, ISO 10993 and USP VI specifications. We believe that the high standards that we adapt ensures that the products we provide are safe and high in quality.

CAPACITY & QUALITY

Our annual production capacity of PVC compounds is 60,000 tonnes capable of meeting the demands of volume orders. Together with our state-of-the-art techniques and equipments our plastics processing is unmatched by our competitors. Moreover, our strict testing protocols and rigorous evaluation by the overseeing management body and R&D team all contribute to the final product that is consistent, high in quality and reliable.

APPLICATIONS

Our medical compounds are suitable for extrusion, injection and blow moulding processing technology. Our product range is adapted to meet the application requirement of our customers. Whether it is different needs of hardness or customization of products for special-purpose. We always endeavour to meet our customers' needs. All our products are suitable for ETO sterilization and our production recipes can be adapted to meet the requirements for steam and gamma sterilization.

Product applications include:

- Urinary Collection Tube and Catheter.
- Infusion Set, Tube, Soft Container.
- Hemodialysis, Blood Line and Component.
- Feeding System, Nutrition Container.
- Laryngeal Airway, Mask, Oxygen Tube, Resuscitator.
- Blood Contact Transfusion System Bag.

PHTHALATE FREE COMPOUNDS FOR MEDICAL DEVICES

Our non-toxic specifications to meet the requirements of European Pharmacopoeia, ISO 10993 and USP class VI which are suitable for both process of extrusion and injection.

(Representative products)

FOR EXTRUSION		Hardness	Specific Gravity	Tensile Strength	Elongation
		ISO 868	ISO 1183	ISO 527	ISO 527
Product Code	Applications / Enduse	Shore A&D	g/cm^3	kg/cm^2	%
SE 085 H36	Hemodialysis Tubes / Blood Lines	A 66 ±3	1.18 ±0.02	166	434
SA 075 3X6	Urine Collection Tubes	A 72 ±3	1.19 ±0.02	167	427
SA 060 3X6	Hemodialysis Tubes / Blood Lines	A 77 ±3	1.20 ±0.02	184	394
SA 062 P36	Oxygen Tubes	A 80 ±3	1.21 ±0.02	202	371
SA 056 3X6	Urine Collection Tubes	A 83 ±3	1.22 ±0.02	213	386
SC 050 3X6	Soft containers / Infusion	A 85 ±3	1.23 ±0.02	214	375
SA 048 3X7	Feeding Tubes / Nutrition	A 85 ±3	1.27 ±0.02	247	355
SA 045 G36	Suction / Tubes	A 91 ±3	1.25 ±0.02	230	377
FOR INJECTION MOULDING		Hardness	Specific Gravity	Tensile Strength	Elongation
		ISO 868	ISO 1183	ISO 527	ISO 527
Product Code	Applications / Enduse	Shore A&D	g/cm^3	kg/cm^2	%
TB 083 36X	Oxygen Mask	A 68 ±3	1.18 ±0.02	134	390
TB 080 P36	Guedel Airway	A 74 ±3	1.19 ±0.02	159	396
TB 070 3X6	Larynx Airway	A 75 ±3	1.21 ±0.02	164	419
TB 060 36X	Guedel Airway	A 81 ±3	1.22 ±0.02	186	376
TA 040 3X6	Blood Lines Components	A 90 ±3	1.25 ±0.02	216	328
TA 035 G6X	Blood Lines Components	A 93 ±3	1.28 ±0.02	247	269
TA 004 AGA	Blood Lines Components	D 81 ±3	1.33 ±0.02	504	95
TA 010 GX6	Blood Lines Components	D 82 ±3	1.34 ±0.02	583	163

GENERAL COMPOUNDS FOR MEDICAL DEVICES

Our general specifications to meet the requirements of European Pharmacopoeia : ISO 10993 and USP class VI which are suitable for both process of extrusion and injection.

(Representative products)

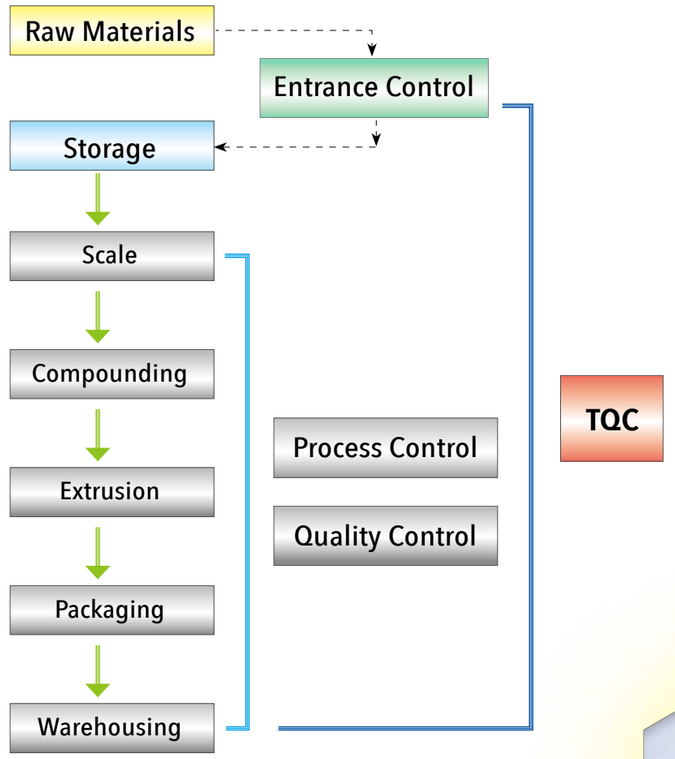
FOR EXTRUSION		Hardness	Specific Gravity	Tensile Strength	Elongation
		ISO 868	ISO 1183	ISO 527	ISO 527
Product Code	Applications / Enduse	Shore A&D	g/cm^3	kg/cm^2	%
SA 085 3X5	Insufflation Tubes	A 63 ±3	1.15 ±0.02	136	449
SK 095 P32	Mask Cushion	A 65 ±3	1.16 ±0.02	115	434
SA 080 P32	Infusion Tubes	A 67 ±3	1.18 ±0.02	125	442
SS 080 P35	Spinal Needle Tubes	A 69 ±3	1.19 ±0.02	170	393
SA 072 P32	Suction / Tubes	A 72 ±3	1.19 ±0.02	159	396
SA 055 GXX	Infusion Tubes	A 79 ±3	1.22 ±0.02	167	340
SC 050 3X5	Soft containers / Infusion	A 83 ±3	1.24 ±0.02	214	375
SA 016 A2X	Suction Tubes	D 70 ±3	1.30 ±0.02	404	221
FOR INJECTION MOULDING		Hardness	Specific Gravity	Tensile Strength	Elongation
		ISO 868	ISO 1183	ISO 527	ISO 527
Product Code	Applications / Enduse	Shore A&D	g/cm^3	kg/cm^2	%
TA 115 P32	Resuscitator	A 54 ±3	1.14 ±0.02	104	483
TB 093 P32	Resuscitator	A 60 ±3	1.16 ±0.02	141	438
TB 070 3XX	Oxygen Mask	A 70 ±3	1.19 ±0.02	142	390
TB 065 3XX	Oxygen Mask	A 71 ±3	1.20 ±0.02	143	378
TA 040 3XX	Blood Lines Components	A 91 ±3	1.26 ±0.02	225	330
TA 035 GXX	Oxygen Mask	A 93 ±3	1.27 ±0.02	254	277
TA 028 GXX	Oxygen Mask	D 67 ±3	1.28 ±0.02	262	258
TA 019 AX2	Oxygen Mask	D 77 ±3	1.30 ±0.02	421	205

The data contained in this document are submitted in good faith for the purpose of general information only. Nan Ya plastics makes no warranty, expressed or implied, that the product conforms to these data. All purchasers or users is requested to verify with our technical services whether the specific application and end use are appropriate.

REMARKS:

1. In addition to above specification, we can provide compounds with a range of hardness shore A 50~96 and shore D 53 ~ 84 for the medical devices.
2. Join development of unique items are available and customer made grade are welcome.

QUALITY SYSTEM FLOW CHART



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ISO 9001 BSMI REGISTERED

ISO 14001 BSMI REGISTERED

OHSAS 18001 BSMI REGISTERED

(2016.02.1000.38 Printed)