



SIJIA Airtight Material 思嘉气密材料



公司简介 ABOUT US

SIJIA constantly provides new environmental protection material products and professional services to more than 100 countries and regions of the world, including modern transportation, medical, construction, outdoor sports and leisure, competitive sports and other 18 major industries, proposing different application solutions for the market.

SIJIA strictly follows ISO9001 Quality Control System. It builds an overall process Quality Assurance System (QAS) from raw materials, technical formula and quality monitoring to products delivery. Meanwhile, SIJIA invites the experienced European expert, who has fully improved R&D, technology, product quality, and ensures excellent and stable products to our clients.

With the most advanced production lines in the world and experienced professional technical team, SIJIA can produce the most suitable products based on different needs of customers.

思嘉为全球100多个国家及地区的现代交通运输、医疗、建筑、户外运动休闲、体育竞技等18大行业领域,源源不断地输送新型环保材料产品及专业服务,为市场提供不同的需求应用解决方案。

公司严格按照ISO9001质量管理体系运行,建立了从原辅材料进厂、工艺配方、在线品质监控到成品出厂全过程的质量保证体系(QAS),同时,聘请欧洲资深研发专家为总工程师,对研发、技术、品质全面加强管理及提升,确保为客户提供品质优异、稳定的产品。

凭借全球最先进的生产线、经验丰富的专业技术团队,思嘉可根据客户不同的需求生产适合的产品。

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思嘉集团官网



思嘉集团公众号



思嘉新材公众号

Colorful 色彩丰富
Safety & Stable 安全稳定
Eco-friendly 绿色环保

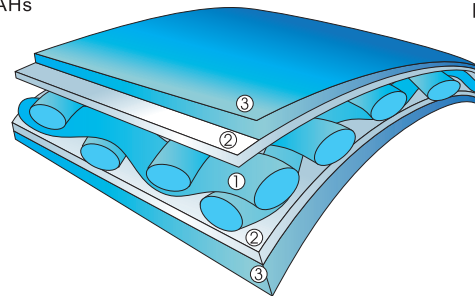


Product Introduction / 产品介绍

Nowadays, aquatic sports has become a tool of people be integrated into the nature and challenge the nature because of its special style. The special, breathtaking and wonderful sports like rafting, assault boat, fishing boat, Kayak-Slalom are more and more popular all around the world.

SIJIA airtight material including airtight pool material and inflatable boat material, which are ideal for the most diverse inflatable products, are a series of specially designed for aquatic sports. The airtight pool material are widely used for the manufacture of aquatic leisure and recreation, aqua arena etc.. The inflatable boat material are mainly used for military boat, rescue boat, kayaks, fishing boat or rafting boat. The material is the achievement of technical innovation. At least four layers of PVC are combined with a high-strength polyester base fabric. Each single layer give the property such as flexibility, elasticity, airtightness and resistance against mechanical damage, wear and abrasion, UV, weather and etc.. SIJIA airtight material are safe without toxic, environment friendly in accordance with the European REACH, RoHS and PAHs regulations.

SIJIA airtight material is eco-friendly and non-toxic, the material meet or exceed the latest European safety regulations. The water sports products made with SIJIA material integrate swimming, entertainment, leisure, exercise, parent-child fun-park and competition, its flexible and safe. The large inflatables are novelty, exciting and full of fun, it's a good way for the teamwork, balance ability and coordination training, at the same time gives the participants the feelings of fair play and social interaction, in this case, it will be more acceptable.



① high-strength polyester base fabric/ 高强聚酯基布
② 2nd top airtight coating/ 二道气密顶涂
③ 1 st primary airtight coating/ 一道气密底涂

水上运动以其特有的运动形式成为现代人们融入自然、挑战自然的工具,漂流、皮艇球、冲锋舟、钓鱼船、障碍回旋、激流马拉松等项目其独特、惊险和优美的特点,使之在世界各地得到极大追捧。

思嘉气密材料系列包括气密水池材料和充气艇材料,专门为水上运动而设计,是大部分充气产品的理想面料。气密水池材料广泛用于生产水上休闲与娱乐、水上竞技场等水上运动产品;充气艇材料则广泛用于制造军用艇、营救艇、皮划艇、钓鱼船、漂流艇等小艇。

这种材料是技术革新的成果,至少有四层PVC涂覆在超强聚酯基布上,这些PVC涂层赋予思嘉气密材料柔韧、弹性、气密、抵抗机械损坏、耐磨、抗UV、耐候等特性。思嘉气密材料是安全无毒、环境友好型,符合欧盟 REACH、RoHS、多环芳烃(PAHs)等环保指令。

因为思嘉气密材料环保无毒,材料达到或超过最新的欧洲安全测试,做出来的水上娱乐休闲产品集游泳、娱乐休闲、嬉水、体育锻炼、亲子乐园、竞技为一体,具有弹性、安全的特征,大型充气玩具新颖又刺激,且趣味性强,所以既能锻炼团队协作、平衡力和协调性,又能让参与者感受公平竞争、社会互动的氛围,让更多的人接受,并离不开它。

Product Applications / 产品应用

充气艇
PVC airtight boat material are widely used for boat which can offer water leisure and recreation game such as kayaks, fishing boat, banana boat, inflatable canoe, rafting boat, surfing boat, etc. And at the same time we produce inflatable boat material for military operation or disaster relief, mainly supplied to the United States, Germany, France, Spain, Russia and other customers, such as assault boat, rowboats, rescue boat, life raft.

气密水池材料
SIJIA airtight pool material can be designed to many different items on the water like Ice Tower, action tower, cliff, inflatable tube, slide, aquatrack, trampoline, Flipper, Double Rocker, Balance Beam, volleyball court, Spinner, children bumper boat, Kayak, inflatable water roller ball, bubble roller. This aquatic sports are featured with modularity, fits into most pools, easy assembly and allows for endless combinations like 100-metre race, high Jump, obstacle race, Kayak race. The aquatic leisure and recreation products made with airtight pool material are widely applied to swimming pool (or natatorium), commercial aquatic playground (or water parks), aqua arena. These style of water sports mode gradually formed more and more resort campsites or club which is able to attract eyeball, gathered popularity.

充气艇
思嘉充气艇材料广泛用于生产皮划艇、钓鱼船、香蕉船独木舟、漂流艇、水上冲浪等供水上休闲、娱乐游戏使用的充气小艇。同时,我们也生产军事或救灾用艇材料,如冲锋艇、皮划艇、营救艇、救生筏等的制造,主要客户为美国、德国、法国、西班牙、俄罗斯等国家。

气密水池材料
思嘉气密水池材料可以做成水上冰山、水上塔楼、水上悬崖,充气管、水上滑梯、水上轨道、水上跳床、水上跷跷板、水上平衡木、水上排球场、水上 UFO、水上小乐园、儿童碰碰船、激光水雷船、水上滚筒、水上步行球等。这些水上娱乐产品是模块化设计,适用于大多数的水域,安装简便,可以完全按照个人想法实现无限级的组合,如进行100米赛跑、跳高、障碍赛跑、赛艇、颁奖仪式等活动。思嘉气密材料做成的水上休闲娱乐产品广泛运用于游泳场、商业水上游乐园、水上竞技场。这些水上运动模式逐步形成越来越多的度假胜地、夏令营或俱乐部,这些地方非常能吸引眼球,聚集人气。

| Items 项目 | Test 测试方法 | Unit 单位 | Standard 指标 | | | | | | | | |
|---------------------------------|---------------|------------|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| Specification 规格 | ISO 4593 | mm | 0.52 | 0.52 | 0.60 | 0.70 | 0.80 | 0.90 | 1.20 | 1.50 | Camouflage 迷彩 |
| Width 成品幅宽 | ISO 2286-1 | mm | 1550-1750 | 1550-2180 | 1550-2180 | 1550-2180 | 1550-2180 | 1550-2180 | 1550-2050 | 1550 | 1550-1750 |
| Base Fabric 基布材质 | ISO 2076 | / | 100%PES | 100%PES | 100%PES | 100%PES | 100%PES | 100%PES | 100%PES | 100%PES | 100%PES |
| Yarn Size 纱线型号 | ISO 2060 | Denier | A | C | C | C | C | C | H | H | C |
| Total Weight 克重 | ISO 2286-2 | g/m | 650 | 610 | 750 | 850 | 985 | 1100 | 1450 | 1800 | 850-1250 |
| Breaking Warp 断裂强度 经向 | ISO 1421 | N/5cm | 1800 | 2600 | 2800 | 2800 | 3300 | 3800 | 4200 | 4200 | 3300 |
| Breaking Weft 断裂强度 纬向 | | N/5cm | 1600 | 2300 | 2500 | 2500 | 3000 | 3500 | 4000 | 4000 | 3000 |
| Breaking Warp 断裂强度 经向 | ASTMD751 | LBS/2inch | 400 | 585 | 630 | 630 | 740 | 900 | 995 | 995 | 740 |
| Breaking Weft 断裂强度 纬向 | | LBS/2inch | 360 | 515 | 560 | 560 | 670 | 780 | 945 | 945 | 670 |
| Trapezoidal tear - Warp 梯形撕裂 经向 | DIN 53363 | N | 150 | 250 | 300 | 300 | 350 | 420 | 450 | 450 | 350 |
| Trapezoidal tear - Weft 梯形撕裂 纬向 | | N | 120 | 200 | 250 | 250 | 280 | 350 | 420 | 420 | 280 |
| Adhesion 胶的粘附力(剥离强度) | ISO 2411 | N/5cm | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | ASTMD751 | LBS/2inch | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Seam Strength(RF) 熔接强度 | FTMS #5970 | N/5cm | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| Temperature Resistance 适用温度 | DIN 53361 | Degree(°C) | -30°C/+70°C | -30°C/+70°C | -30°C/+70°C | -30°C/+70°C | -30°C/+70°C | -30°C/+70°C | -30°C/+70°C | -30°C/+70°C | -30°C/+70°C |
| Weft Distortion 纬斜 | ASTM D3882 | % | ≤1.3 | | | | | | | | |
| Flex Cracking(10000 times) 耐折性能 | DIN 53359 | - | No Crack | | | | | | | | |
| Flame Retardancy 防火阻燃性能 | - | - | EN 13501 B1 or Client's Requirement | | | | | | | | |
| Temperature Resistance 适用温度 | DIN EN 1876-2 | °C | (-30°C)~(+70°C) | | | | | | | | |
| Recommend Pressure 建议充气压力 | - | Psi | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 6-8 |

• The above technical data are arithmetic averages with a permissible error of 5%.
以上技术数据为算术平均值,允许误差5%。

• The buyer shall be fully responsible for the application of the product or any third-party use of them.
买家对产品的应用或者他们任何第三方其他用途负全责。

• All the above data are provided as the best advice we can offer for the use of the product and should not be construed as a legal statement.
以上所有数据是我们能为产品的用途提供最好的建议,不作为法律声明。

• As our technology continues to improve, the product is also constantly being upgraded, and we reserve the right to modify the product features at any time.
随着我们技术的不断改进,产品也在不断升级,我们保留随时修改产品特性的权利。

Product Characteristics / 产品特性

- High air tightness / 高气密性
- Extremely good tensile, tearing and adhesion strength / 抗拉、抗撕裂、抗剥离特性强
- Long life due to high UV, weather, abrasion and impact resistance / 抗UV、耐候、耐磨、抗冲击性能优异,使用寿命长
- Good welding and bonding properties / 非常好的熔接、粘性性能
- Easy and quickly to the next procedure processing, and simply to assemble and use / 后道加工容易而快速,组装使用非常简单
- Extra characteristics: REACH, EN-71, ROHS, CPSIA, ASTM D963, UV resistance, Anti-chemical, Anti-bacteria, Anti-Mildew, Flame retardant, etc / 附加特性: REACH、EN-71、RoHS、CPSIA、ASTM D963、抗UV、耐化学物质、防霉抗菌、阻燃等