



## SIJIA New Eco-friendly TPU Fabric

### 思嘉新型TPU环保材料



#### 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

Eco-friendly 环 保  
Safety 安 全  
High transparency 高 透 明 度





## Product Introduction / 产品介绍

TPU and its laminated fabric are the kinds of new eco-friendly material which can meet the international food grade of FDA, EU directive 10/2011, etc. Meanwhile, it has excellent properties of oil resistance, anti hydrolysis, durable, anti bacteria, anti mildew, light weight, softness and good hot welding. It can apply to Medical Industry, Army Industry, Food Industry, Daily use Industry, Industrial Industry, etc..

## Product Characteristics / 产品特性

- Excellent Eco friendly property:**  
Meet the international food (drinking water) grade of FDA, EU directive 10/2011, NSF61, etc..
- Excellent temperature resistance property:**  
Ether TPU can endure the cold crack -50 C and high temperature 80 C , some specialty can reach the high temperature around 100-120 C .
- Excellent physical mechanism property:**  
Compared to TPE, PVC, EVA, PP, TPU film have excellent tensile strength, flexible and durable. TPU laminated fabric can reach the tensile strength to 7000N/50mm as customers required.
- Excellent oil resistance:**  
Use to contain Industrial Oils: for example, Mineral Oils, Tung Oils, Castor Oils, Base Oils, different kinds of lubricant Oils and additive agents, Glycerin Oils, Hydraulic Oils, High oil fatty acids, Refined Oils, Process Oils, Transformer Oils, Industrial gear Oils, Vegetable Oils, White Oils, etc..  
Use to contain Fuel Oils: Gasoline, Diesel Oils (light), Kerosene, etc..  
Can meet the requirements of soft oil bag material's GJB4219, GJB6660, GJB5482 Standard.
- Good processing property:**  
Applicable to high frequency welding, high temperature welding, glue, sewing, ect..

## TPU Tarpaulin / TPU 工业网布复合材料

- Applications / 产品应用:**  
Soft Reservoir (bag), Soft Storage Tanks (Bag), Soft Water Storage Tank (Bag), and other soft containers; Inflatable Jack, Inflatable Boats, high-pressure Oxygen Chamber, Cushion Airbags and other inflatable products. Protective Covers, tent Material, Snowshoe materials, etc..  
软体储液罐(囊)、软体储油罐(囊)、软体储水罐(囊)等软体容器; 充气千斤顶、充气艇、高压氧仓、缓冲气囊等充气产品; 防护罩、帐篷材料、雪靴材料等。

Items 项目	单位 Unit	Test Method 测试方法	Type 型号					
Basic Fabric 基布	Denier	ISO 2060	Polyester M	Polyester C	Polyester K	Polyester L	Nylon B	Nylon G
Thickness 成品厚度 (参考)	mm	ISO 4593	0.30-0.60	0.60-1.2	1.00-1.6	1.1-2.0	0.70-1.2	1.2-2.0
Total Width 成品幅宽	mm	DINENISO2286-1	1200-1650					
Tensile Strength(Warp / Weft) 断裂强度 (经向/纬向)	N/5cm	ISO 1421	400/350	2800/2500	4800/4500	6000/5500	3200/3000	7000/6500
Tear Strength (Warp / Weft) 撕裂强度 (经向/纬向)	N/5cm	DIN 53363	120/100	250/200	500/400	800/700	250/200	900/800
Adhesion Strength(Cover/Back) 胶的粘附力(面/底)	N/5cm	ISO 2411	≥120					
Temperature Resistance 适用温度	°C	DIN EN 1876-2	-40°C/+80°C					
Flame Retardancy 防火阻燃性能	----	----	Client' s Requirement					

TPU 及其复合面料是一种新型的环保材料，可以通过 FDA、EU directive 10/2011 等国际食品级标准，同时具有耐油性好，耐水解，强度高，耐磨性好，防腐抗菌、质量轻，柔韧性好，焊接性能优异等特性，可以广泛应用于为医疗、军工、食品、民生、工业等领域。

- 杰出的环保性能:**  
可以通过 FDA, EU directive 10/2011, NSF61 等各类国际食品 (或饮用水) 级认证。
- 优异的耐温性:**  
聚酯产品可以耐受 -40°C 低温，高温一般可以耐受 80°C，特殊产品耐受高温可以达到 100-120°C。
- 优异的物理机械性能:**  
与 TPE、PVC、EVA、PP 等材料相比，TPU 薄膜类产品具有优异抗张强度，高弹性以及耐磨等特性；TPU 复合材料，可以根据客户要求可以提供拉伸强度高达 7000N/50mm 的材料。
- 优异的耐油性:**  
可以应用于盛装工业用油类：矿物油、桐油、蓖麻油、基础油、各类润滑油及添加剂、甘油、液压油、高油脂肪酸、精炼油、工艺油、变压器油、工业齿轮油、植物油、白油等。  
燃油系列：汽油、柴油（轻）、煤油等。  
可通过 GJB4219A、GJB6660、GJB5482 等系列软体油囊材料的标准要求。。
- 加工性好:**  
适应高频焊接、高温焊接、黏胶、针车等加工工艺。

## TPU Film / TPU 薄膜材料

- Characteristics / 产品特征:**  
Eco-friendly, Safety, High transparency, Water resistance, Solvent resistance, High flexibility, High strength, Long fatigue life, Fire retardant, Smooth (anti-sticking), Easy to cut, High temperature resistance, Low temperature resistance.  
环保安全、高透明度、耐水解、耐溶剂、高弹性、高强度、疲劳寿命长、阻燃、爽滑（防粘）、易裁剪、耐高温、耐低温。
- Applications / 产品应用:**  
Food Grade Aprons, Baby Bibs, Cosmetic Bags, Water Bags, Protective Clothing (raincoat), Medical Mattress, Inflatable Balloon.  
食品级围裙、婴儿围兜、化妆包、饮水袋、防护服（雨衣）、医疗床垫、充气气囊。

Items 项目	单位 Unit	Test Method 测试方法	Type 型号	Polyester TPU 聚酯 TPU	Polyester TPU 聚酯 TPU	Polyester TPU 聚酯 TPU	Polyether TPU 聚醚 TPU	Polyether TPU 聚醚 TPU
Color 颜色	----	----		Transparentor Client's Requirement				
Thickness 成品厚度 (参考)	mm(±0.02)	ISO 4593		0.12-2.0				
Total Weight 成品克重 (参考)	g/m <sup>2</sup>	DIN EN ISO 2286-2		140-2500			130-2300	
Total Width 成品幅宽	mm(±5)	DIN EN ISO 2286-1		850-1600				
Hardness 硬度	Shore A	ASTM D2240		85	90	95	85	90
Tensile Strength(Warp/Weft) 断裂强度 (经向/纬向)	Mpa	ASTM D412		40/40	50/50	55/55	30/30	40/40
Elongation (Warp/Weft) 伸长率 (经向/纬向)	%	ASTM D412		550/600	500/555	450/500	600/650	500/550
Tear Strength (Warp/Weft) 撕裂强度 (经向/纬向)	N/mm	ASTM D624 Die C		80/80	95/95	105/105	80/80	90/90
Seam Strength (1/8"RF breakaway) 熔接强度	N/5cm	FTMS #5970		150	180	220	180	220
Temperature Resistance 适用温度	°C	DIN EN 1876-2		-35°C/+80°C			-40°C/+70°C	
Flame Retardancy 防火阻燃性能	----	----		Client' s Requirement				

## TPU Laminated Nylon Material / TPU 复合材料

- Applications / 产品应用:**  
Protective Clothing, Medical Mattress, Inflatable Balloon, inflatable Rafts, Tents, Bags and other materials.  
防护服、医疗床垫、充气气囊、充气筏、帐篷、箱包等材料。

Items 项目	Unit 单位	Test Method 测试方法	Type 型号	Q	N	P	B
Color 颜色	----	----		Client' s Requirement			
Basic Fabric 基布	Denier	ISO 2060		Nylon oxford	Nylon oxford	Nylon oxford	Nylon oxford
Thickness 成品厚度 (参考)	mm	ISO 4593		0.18-0.50	0.25-0.30	0.50-1.00	0.60-1.20
Total Width 成品幅宽	mm	DIN EN ISO 2286-1		1200-1480			
Tensile Strength(Warp/Weft) 断裂强度 (经向/纬向)	N/5cm	ISO 1421		600/500	1000/800	1500/1200	1800/1600
Tear Strength (Warp/Weft) 撕裂强度 (经向/纬向)	N/5cm	DIN 53329		8/6	25/20	40/30	60/50
Adhesion Strength(Cover/Back) 胶的粘附力(面/底)	N/5cm	ISO 2411		60	70	70	90
Temperature Resistance 适用温度	°C	DIN EN 1876-2		-40°C/+80°C			
Flame Retardancy 防火阻燃性能	----	----		Client' s Requirement			

- 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。