



High-Performance Technical Films

Advanced Thermoplastic Polyurethane Solutions

Dingzing

About DingZing

At DingZing, we specialize in advanced, high-quality technical films. Our films are used in all types of products and applications, and can be customized to deliver the most effective solutions. When it comes to developing and producing high-performance technical films, DingZing leads the way.

DingZing



Welcome to the Innovation Playground.

At the Innovation Playground, we exchange ideas. Explore possibilities. Experiment with technical films. This is what we call collaborative innovation—our own unique way of working with clients to turn concepts into reality.

With our knowledge of technical films at the ingredient, material, process, and production level, we are able to develop the most innovative solutions with our clients.

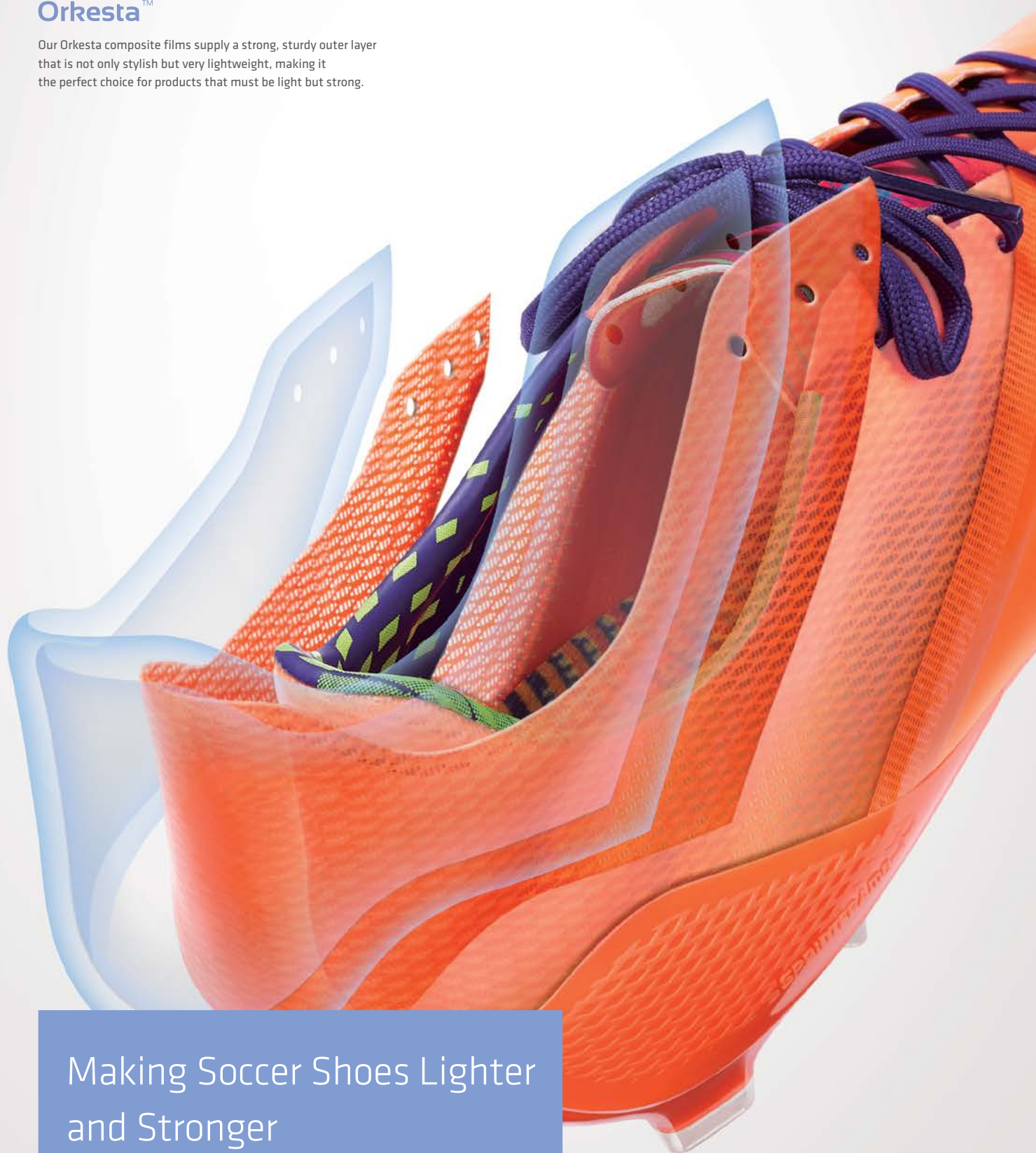
Success Stories

Our Technical Films Energize Industries

Over the past thirty years, our technical films have contributed to a number of revolutionary products. By collaborating with our clients at the Innovation Playground, we've helped develop and launch countless game-changing products and processes. Here are just a few examples of the ways our technical films have energized industries.

Orkesta™

Our Orkesta composite films supply a strong, sturdy outer layer that is not only stylish but very lightweight, making it the perfect choice for products that must be light but strong.



Making Soccer Shoes Lighter and Stronger

To make what just may be the world's finest soccer shoe, we collaborated with a leading shoemaker on a technical film solution that delivers advanced functionality without any unnecessary bulk. The result? Incredibly lightweight but durable soccer shoes.

Provecta™ | Orkesta™

Our Provecta technical film's durability and leak-proof strength made it ideal for this system's high-end inflatable massage features, while our Orkesta films have been widely used to deliver a stylish, durable outer layer for car seat exteriors.

Taking Luxury Automobiles to the Next Level

When leading luxury auto makers wanted to achieve the highest level of quality in their automobiles, right down to the smallest detail, they came to us. Working together, we developed a solution using our technical films to form the backbone of a lumbar support system in high-end car seats.





Provecta™

Our Provecta technical films deliver outstanding flexibility and provide a level of performance that other TPU films simply can't match. Their strength and durability ensure long-lasting sound quality, in everything from home stereos to smartphones.

Setting New Standards in Sound Quality

True audiophiles know that the materials used in a speaker can make all the difference in true sound quality. It's no wonder then that manufacturers seeking the highest quality and durability have choose to collaborate with us on high-performance speakers.

Provecta™

Our Provecta technical films deliver superior color and clarity, and are the perfect for printing all types of stylish, colorful graphics. What's more, their durability keeps colors and graphics looking bright and fresh.

Printing Cool Graphics and Crisp Colors

One of the world's biggest snowboard makers had big ideas for the graphics on their boards. So, working together at the Innovation Playground, we developed a technical film solution that enabled them to print any graphics they could dream up on their boards—and have them last longer!



Provecta™

Provecta technical films are an ideal choice for medical applications, since they are hygienic, waterproof, and durable. What's more, they are the ideal material in which to embed biosensors.

Advancing Medical Care— Today and Tomorrow

As medical care continues to advance, our technical films are already being used in a host of medical applications, such as medical mattresses. And because they can embed biosensors, one day soon they will also be assisting healthcare professionals in monitoring patients.



Taking Wearable Technology Forward

The future of wearable technology has arrived, and our technical films are already being used in cutting-edge applications. Advanced cushioning systems in helmets can now include biosensors embedded into our technical films, providing athletes with comfortable and durable cushioning systems that also monitor for concussions.

Provecta™

Since our technical films are lightweight, but durable, they are the perfect choice for housing chips and biosensors. In addition, since our films are also waterproof and highly resistant to sweat, they are ideal for wearable technology used by athletes.

DingZing Technical Films

DingZing produces the finest, most functionally advanced technical films in the industry. Our comprehensive range of films includes ester- and ether-based films, aliphatic, waterproof-breathable, composite, and custom-made grades for specific applications. Our technical films are divided into three categories—Provecta™, Orkesta™, and Advanta™, with each delivering specific functional benefits.

Provecta™

Provecta™ (prō-'vek-tā) is a series of advanced technical films designed to provide a better alternative to rubber and traditional plastic. Highly adaptable and extremely versatile, Provecta™ is excellent for use as a protective layer, adhesive, sealant, and cushion in both commercial and medical applications. Our Provecta™ line offers a comprehensive range of ether-, ester-, bio-based, and recycled films, and as well as leading-edge foams and tapes.

Provecta™ Aromatic

Provecta™ Tape

Provecta™ Aliphatic

Provecta™ Bio

Provecta™ Hot Melt

Provecta™ Recycled

Provecta™ Foam

Origin of Name: Provecta™ is derived from "provectus," the Latin word for "advanced," and provides the ideal name for this line of highly advanced technical films.

Orkesta™

Orkesta™ (ôr-'kes-tă) is a series of composite materials with a layer of hot melt film designed to replace conventional materials, like microfiber or genuine leather. These materials can be applied as an outer layer to a variety of products, including shoes and car interiors, via heat pressing and high-frequency welding. Orkesta Composite technical films are available in various colors and patterns, and excel at enhancing product aesthetics.

Orkesta™ Composite

Origin of Name: Orkesta™ is inspired by "orchestra" and emphasizes the beauty of harmony. Just as different instruments come together to make beautiful music in an orchestra, Orkesta™ Composite technical films work together with a host of other materials to produce attractive products.

Advanta™

Advanta (formerly known as Dintex®) is our original line of trademarked technical films. This industry-leading series is designed for applications that require outstanding waterproof functionality and breathability. Available in different levels of breathability for different applications, Advanta films come in a variety of colors and prints. Widely recognized as a top waterproof, breathable material, Advanta technical films can be used in a wide range of applications and products, including snow jackets, raincoats, and skiing and snowboarding gloves and hats.

Advanta™ Breathable

Origin of Name: Advanta™ is inspired by the words "advanced" and "advantage," highlighting the advanced breathability and multiple advantages of this series of waterproof-breathable technical films.

Provecta™ Aromatic

Provecta™ Aromatic technical films are excellent for applications that require flexibility, durability, and sturdiness.

Physical Properties	Hardness	Specific Gravity	Tensile Strength	Tear Strength	300% Modulus	Elongation	Melting Point
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (DieC)	(kg/cm²) D412	(%) D412	(°C)
FT1013	68D	1.18	warp: 524 weft: 498	warp: 175 weft: 172	warp: 445 weft: 329	warp: 322 weft: 427	177
FT1014	75D	1.19	warp: 558 weft: 597	warp: 142 weft: 136	warp: 304 weft: 347	warp: 501 weft: 501	175
FT1029	85A	1.12	warp: 463 weft: 465	warp: 89 weft: 87	warp: 137 weft: 108	warp: 616 weft: 625	150
FT1029X4-2	85A	1.12	warp: 436 weft: 456	warp: 118 weft: 117	warp: 74 weft: 71	warp: 749 weft: 797	150
FT1037	75A	1.11	warp: 174 weft: 171	warp: 63 weft: 61	warp: 98 weft: 70	warp: 853 weft: 852	127
FT1038	80A	1.11	warp: 287 weft: 245	warp: 66 weft: 75	warp: 100 weft: 81	warp: 695 weft: 750	145
FT1039	82A	1.13	warp: 302 weft: 270	warp: 63 weft: 63	warp: 81 weft: 57	warp: 579 weft: 722	130
FT1045	90A	1.13	warp: 664 weft: 705	warp: 115 weft: 118	warp: 273 weft: 241	warp: 457 weft: 484	175
FT1087	87A	1.12	warp: 451 weft: 474	warp: 103 weft: 97	warp: 118 weft: 108	warp: 576 weft: 604	160
FS1007	85A	1.22	warp: 562 weft: 588	warp: 83 weft: 78	warp: 149 weft: 111	warp: 470 weft: 518	130
FS1008	92A	1.21	warp: 692 weft: 687	warp: 96 weft: 91	warp: 314 weft: 275	warp: 410 weft: 465	155
FS1009	90A	1.22	warp: 767 weft: 770	warp: 105 weft: 111	warp: 165 weft: 161	warp: 544 weft: 555	150
FS1035	73A	1.17	warp: 404 weft: 389	warp: 87 weft: 83	warp: 43 weft: 43	warp: 736 weft: 740	140
FS2090	86A	1.20	warp: 674 weft: 623	warp: 94 weft: 93	warp: 251 weft: 189	warp: 468 weft: 507	163
FS2091S	85A	1.20	warp: 480 weft: 475	warp: 101 weft: 107	warp: 187 weft: 171	warp: 515 weft: 548	158
FS2095	95A	1.21	warp: 745 weft: 728	warp: 118 weft: 121	warp: 289 weft: 282	warp: 482 weft: 489	163
FS2865	60D	1.23	warp: 659 weft: 643	warp: 185 weft: 178	warp: 479 weft: 453	warp: 380 weft: 394	180
FS2885	85A	1.20	warp: 560 weft: 518	warp: 93 weft: 91	warp: 138 weft: 109	warp: 534 weft: 596	146
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■ Ether-based Technical Films ■ Ester-based Technical Films							



	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
			+		+		+	
			+		+		+	
		+	+	+	+	+	+	+
		+	+	+	+	+	+	+
								+
								+
						+		+
						+		+
		+				+		+
		+			+	+		+
		+			+	+		+
		+			+	+		+
			+		+			+
		+			+	+		+
		+			+	+		+
					+			+
					+			
					+			

Provecta™ Aliphatic


Provecta™ Aliphatic technical films are light stable and best for applications that require optical clarity, such as surface protection or glass lamination.

Physical Properties	Hardness	Specific Gravity	Tensile Strength	Tear Strength	300% Modulus	Elongation	Melting Point	UV Discoloration
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412	(°C)	G154
FTA3290+5.5	92A	1.09	warp: 414 weft: 408	warp: 65 weft: 62	warp: 307 weft: 305	warp: 355 weft: 350	92	4
FTA3296+5.5	55D	1.08	warp: 616 weft: 605	warp: 87 weft: 87	warp: 432 weft: 415	warp: 374 weft: 355	105	4
FSA3295+30	55D	1.12	warp: 670 weft: 636	warp: 112 weft: 109	warp: 418 weft: 420	warp: 393 weft: 387	105	4
FSA3H95+5.5	95A	1.16	warp: 580 weft: 534	warp: 103 weft: 102	warp: 164 weft: 158	warp: 609 weft: 594	142	4
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Provecta™ Hot Melt

Provecta™ Hot Melt technical films are solvent-free, highly elastic, and perfect for bonding fabrics, synthetic leather, and glass, among other materials.

Physical Properties	Hardness	Specific Gravity	Tensile Strength	Tear Strength	300% Modulus	Elongation	Melting Point
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412	(°C)
FTA3275X39+PEX39	75A	1.07	warp: 121 weft: 105	warp: 16 weft: 15	warp: 13 weft: 13	warp: 747 weft: 721	75
FS2650-PE	47D	1.19	warp: 475 weft: 426	warp: 109 weft: 110	warp: 107 weft: 85	warp: 740 weft: 727	85
FS26V0-PE	92A	1.16	warp: 88 weft: 95	warp: 62 weft: 62	warp: 56 weft: 62	warp: 524 weft: 493	50
FS3215X1+DZ03P	40D	1.20	warp: 248 weft: 228	warp: 75 weft: 76	warp: 59 weft: 54	warp: 775 weft: 758	60
FS3233X1+DZ03P	45D	1.16	warp: 373 weft: 368	warp: 116 weft: 110	warp: 86 weft: 73	warp: 808 weft: 841	90
FS3253X1+DZ03P	67A	1.16	warp: 99 weft: 99	warp: 31 weft: 31	warp: 23 weft: 22	warp: 970 weft: 978	104
FS3258X1+DZ03P	73A	1.16	warp: 227 weft: 262	warp: 49 weft: 49	warp: 46 weft: 48	warp: 729 weft: 728	85
FS3280X1+DZ03P	83A	1.21	warp: 383 weft: 382	warp: 75 weft: 70	warp: 73 weft: 72	warp: 717 weft: 723	113
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	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
			+	+	+	+	+	+
			+	+	+	+	+	+
			+	+	+	+	+	+
			+	+	+	+	+	+



	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
			+			+	+	
				+	+			+
			+	+				+
			+	+				+
				+	+			+
					+			+
		+			+			+
		+	+		+			+

Provecta™ Foam

Provecta™ Foam is excellent for lingerie and apparel, and for applications where hygiene, durability, and good compression are important, such as bandages and cushioning systems.

Physical Properties	Hardness	Specific Gravity	Tensile Strength	Tear Strength	300% Modulus	Elongation
	(ASKER C) SRIS 0101	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412
FTF1085	50C	0.40	warp: 26 weft: 24	warp: 19 weft: 20	warp: 16 weft: 15	warp: 489 weft: 483
FF1T85E	35C	0.35	warp: 44 weft: 23	warp: 14 weft: 16	warp: -- weft: 17	warp: 220 weft: 400
AF2D40	92F	0.40	warp: 26 weft: 28	warp: 10 weft: 8.8	warp: 21 weft: 25	warp: 331 weft: 313
FSF1088	50C	0.40	warp: 20 weft: 22	warp: 19 weft: 20	warp: 17 weft: 17	warp: 426 weft: 442
FF9S88E	32C	0.36	warp: 32 weft: 20	warp: 12 weft: 13	warp: -- weft: 13	warp: 252 weft: 435
FF9S89E	22C	0.30	warp: 21 weft: 13	warp: 8 weft: 8	warp: -- weft: 11	warp: 199 weft: 349
SPF5858	64C	0.87	warp: 264 weft: 181	warp: 36 weft: 36	warp: 65 weft: 45	warp: 475 weft: 465

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■ Ether-based Technical Films ■ Ester-based Technical Films

Provecta™ Tape

Provecta™ Tape is used to cover seams and stitches, and to join pieces of material together. It can be used in apparel and sporting goods applications, such as swimsuits, sportswear, lingerie, tents, and bags.

Physical Properties	Hardness	Specific Gravity	Tensile Strength	Tear Strength	300% Modulus	Elongation	Melting Point
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412	(°C)
DINDEX 091X3.3	77A	1.13	warp: 335 weft: 324	warp: 64 weft: 67	warp: 77 weft: 66	warp: 677 weft: 764	145
FTSK38+DZ80	70A	1.07	warp: 200 weft: 224	warp: 77 weft: 69	warp: 67 weft: 47	warp: 542 weft: 655	140
FTSK67+06	87A	1.21	warp: 260 weft: 261	warp: 45 weft: 41	warp: 126 weft: 116	warp: 426 weft: 451	148
DINDEX 078X3.3	78A	1.19	491	82	79	564	n/a
FSSK07+06	88A	1.21	warp: 421 weft: 470	warp: 73 weft: 86	warp: 160 weft: 132	warp: 538 weft: 624	162

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■ Ether-based Technical Films ■ Ester-based Technical Films

For more information about all of our Provecta™ Foam and Provecta™ Tape products, visit our website at www.dingzing.com.

	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
			+	+	+	+		+
			+	+	+	+		+
			+	+	+	+		+
			+	+	+	+		+
			+	+	+	+		+
		+	+	+	+	+		+

	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
		+	+			+		+
						+		
						+		
		+			+			+
						+		

Provecta™ Bio

Provecta™ Bio films are made from organic materials. It is ideal for applications that require flexibility, durability, and sturdiness, with the added bonus of a reduced environmental footprint.

USDA Approved

Physical Properties	Hardness	Specific Gravity	Tensile Strength	Tear Strength	300% Modulus	Elongation	Melting Point
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412	(°C)
FS6170X1 + DZ03P	77A	1.22	warp: 309 weft: 324	warp: 40 weft: 40	warp: 54 weft: 53	warp: 687 weft: 700	116
FS6185	85A	1.22	warp: 410 weft: 394	warp: 83 weft: 80	warp: 125 weft: 112	warp: 596 weft: 623	165
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■ Ether-based Technical Films ■ Ester-based Technical Films							

Provecta™ Recycled

Provecta™ Recycled is a series of economical, environmentally-friendly technical films that are made from post-industrial surplus.

USDA Approved

Physical Properties	Hardness	Specific Gravity	Tensile Strength	Tear Strength	300% Modulus	Elongation	Melting Point
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412	(°C)
FS2R85X1-01	85A	1.28	warp: 324 weft: 314	warp: 95 weft: 95	warp: 149 weft: 141	warp: 586 weft: 604	144
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■ Ether-based Technical Films ■ Ester-based Technical Films							

Orkesta™ Composite

Orkesta™ Composite technical films are available in various colors and patterns, and can be applied as an outer layer to a variety of products, including shoes, car interiors, bags, tents, and apparel.

Physical Properties	Tensile Strength	Tear Strength	300% Modulus	Elongation
	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412
FDT5529	warp: 289 weft: 287	warp: 70 weft: 69	warp: 93 weft: 90	warp: 542 weft: 551
FDT5596	warp: 366 weft: 380	warp: 85 weft: 92	warp: 136 weft: 127	warp: 524 weft: 549
FKS 5555S-PE	warp: 385 weft: 384	warp: 83 weft: 85	warp: 224 weft: 204	warp: 414 weft: 431
FKS8558+PF	warp: 376 weft: 351	warp: 79 weft: 78	warp: 128 weft: 128	warp: 502 weft: 491
FDS9980	warp: 78 weft: 76	warp: 53 weft: 46	warp: 78 weft: 74	warp: 300 weft: 382
FDS9958	warp: 139 weft: 120	warp: 49 weft: 38	warp: 123 weft: 107	warp: 326 weft: 318
FDS9933	warp: 182 weft: 142	warp: 85 weft: 76	warp: 117 weft: 103	warp: 377 weft: 361
FDS0880	warp: 185 weft: 183	warp: 77 weft: 71	warp: 80 weft: 77	warp: 516 weft: 518
FDS5580	warp: 213 weft: 219	warp: 70 weft: 66	warp: 84 weft: 79	warp: 504 weft: 523
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■ Ether-based Technical Films ■ Ester-based Technical Films				

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Advanta™ Breathable

Advanta™ Breathable technical films deliver superior waterproof functionality and breathability, and are available in a variety of colors and prints.

Technical Films
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Physical Properties		Specific Gravity	M.V.T.	M.V.T.	W.P.R.	PE Carrier	Melting Point
		D792	ASTM E96-93BW	JIS L1099A1			(°C)
High Breathability	FKT1981S + PE WHITE	1.42	20000	5000	> 10000	+	200
	FKT1981S + PE 102 NATURAL	1.28	20000	5000	> 10000	+	200
	FT1880-PE	1.23	12000	3500	> 10000	+	140
	FT1881-PE	1.30	12000	3500	> 10000	+	140
	FT1880S-PE	1.23	12000	3500	> 10000	+	140
	FT1881S-PE	1.29	12000	3500	> 10000	+	140
	FT1080-PE	1.23	12000	3500	> 10000	+	140
	FT1081-PE	1.24	12000	3500	> 10000	+	140
Medium Breathability	FT1680S-PE	1.21	10000	3000	> 10000	+	150
	FT1680-PE	1.24	10000	3000	> 10000	+	150
	FT1681S-PE	1.30	10000	3000	> 10000	+	150
	FT1681-PE	1.26	10000	3000	> 10000	+	150
	FT1177-PE	1.21	10000	3000	> 10000	+	150
	FT1177W-PE	1.24	10000	3000	> 10000	+	150
	FT1067-PE	1.23	10000	3000	> 10000	+	150
	FT1068-PE	1.28	10000	3000	> 10000	+	150
Low Breathability	FS2090	1.20	200	700	> 10000	+	163
	FS2090GW	1.29	200	700	> 10000	+	158
	FS2091S	1.20	200	700	> 10000	+	158
	FS2091SW	1.27	200	700	> 10000	+	158

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■ Ether-based Technical Films ■ Ester-based Technical Films

For more information about all of our Advanta® Breathable technical films, visit our website at www.dingzing.com.



	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
		+	+		+	+		+
		+	+		+	+		+
		+	+			+		+
		+	+			+		+
		+	+			+		+
		+	+			+		+
		+	+			+		+
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		+	+		+	+		+

Social Responsibility

DingZing is leading the way forward toward more sustainable business practices and carbon neutrality. We are proud not only to offer “green” technical films to our clients, but also to ensure the safety of the environment while we are producing our films. Furthermore, we are firmly committed to reducing the waste of resources and materials in all areas of our company.

Green Materials

DingZing technical films are made from TPU, a biodegradable material. Since TPU does not emit toxic gas when it is heated, it is an excellent material for sealants and adhesives. In addition, our Provecta Bio technical films are bio-based, and therefore, biodegradable. Products made fully with our technical films are 100% recyclable.



Biodegrades
in 5 to
10 years



100% recyclable



Science. Innovation. Collaboration.

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