



# 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.

#### We Believe in Collaborative Innovation

Welcome to the Innovation Playground. This is what we call collaborative innovation—our own unique way of working with clients to turn concepts into reality.

At the Innovation Playground, we exchange ideas. Explore possibilities. Experiment with technical films.

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.



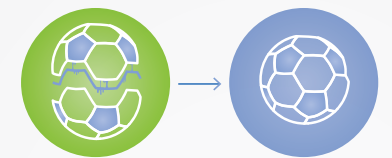
## Success Stories

## 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.

### Creating the Perfect Soccer Ball

Our Provecta™ technical film enabled a leading sports brand to create the world's most advanced no-stitch soccer ball. The result? A ball that's changed the way soccer is played—and the way premium soccer balls are made.

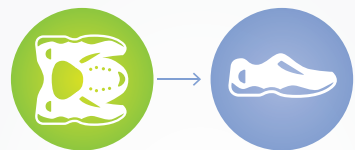


Provecta™ technical films can be thermobonded, greatly reducing the need for cutting and stitching in the production process. This means faster production times, lower labor costs, bigger profit margins, and less waste.

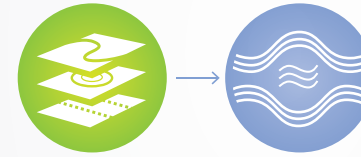


## Revolutionizing Basketball Shoes

To make the world's first "no sew" basketball shoe, a major shoe maker turned to DingZing. Thanks to our Provecta™ technical film, an entirely new production process was created. The no-stitch basketball shoe was born, and the shoe industry was changed forever.



Provecta™ technical films have made shoes lighter and more durable, and the production technology our films pioneered has become an industry standard for premium athletic shoes.



Provecta™ technical films bond to everything from foam to fabrics, and can be welded to form a strong seal, making them ideal for products where reliable air storage is essential.

## Sealing Air-Mattresses Tight

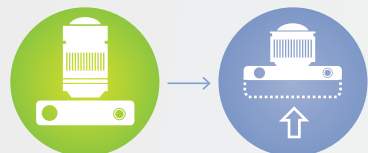
Provecta™ technical films deliver superior sealing, which is essential for products like air mattresses, inflatable boats, and life vests. Welding Provecta™ film to itself or other materials creates strong, leak-proof seals.





## Making Cameras More Compact

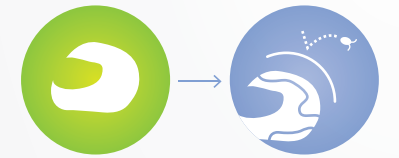
Several major camera makers have switched from PVC to Provecta™ technical films in their camera lenses. Because Provecta™ films are thin but highly effective at blocking out light, cameras can become lighter and more compact, and the zoom capabilities of their lenses increased.



Light but strong. Thin but effective. Provecta™ technical films are revolutionizing product design, enabling items to become more compact without sacrificing any performance.

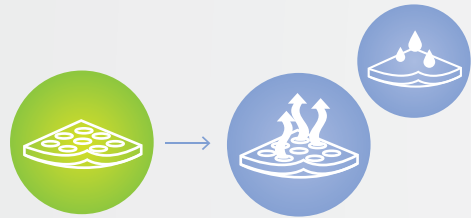
## Pioneering a New Cushioning System

Provecta™ technical films are now used by a premier sporting-goods maker to make superior cushioning systems for sports helmets. These systems excel at absorbing impact, and because they are made with Provecta™ films, they are also more hygienic and better at heat management.



Provecta™ technical films deliver strength and durability, along with excellent resistance to mildew and bacteria, making them perfect for sporting goods and outdoor gear.





Provecta™ technical films are soft, stretchable, and breathable. They also don't contain any plasticizers, which can cause allergic reactions. It's no wonder our medical films and foams are being used in leading-edge wound-care applications.

## Healing More Quickly and Comfortably

Provecta™ medical films and medical foams are leading the way in injury treatment. A new generation of bandages made from Provecta™ films and foams absorb fluids without drying out wounds, and provide protection and breathability to speed up the healing process.

### Collaborative Innovation

We're ready to work with you on the next industry-leading product.

Come and join DingZing at the Innovation Playground. Let's collaborate. Innovate. Use our technical films to create something new, something different, something revolutionary. Let's find out how our technical films can help you energize your industry.



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	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (DieC)	(kg/cm²) D412	(%) D412	(°C)								
FT1013	70D	1.18	warp: 524 weft: 498	warp: 203 weft: 218	warp: 445 weft: 329	warp: 322 weft: 427	177			+		+		+	
FT1014	75D	1.19	warp: 518 weft: 458	warp: 236 weft: 232	warp: 304 weft: 347	warp: 319 weft: 401	175			+		+		+	
FT1029	85A	1.13	warp: 411 weft: 408	warp: 113 weft: 118	warp: 137 weft: 108	warp: 548 weft: 598	155		+	+	+	+	+	+	+
FT1029X4-NN	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: 496 weft: 586	warp: 60 weft: 66	warp: 98 weft: 70	warp: 584 weft: 665	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: 345 weft: 335	warp: 105 weft: 105	warp: 70 weft: 65	warp: 635 weft: 690	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: 390 weft: 380	warp: 100 weft: 105	warp: 80 weft: 75	warp: 550 weft: 570	130		+			+	+		+
FS1008	92A	1.21	warp: 360 weft: 350	warp: 130 weft: 130	warp: 130 weft: 140	warp: 465 weft: 440	155		+			+	+		+
FS1009	90A	1.22	warp: 767 weft: 770	warp: 105 weft: 111	warp: 165 weft: 161	warp: 544 weft: 555	150		+			+	+		+
FS1010	72A	1.17	warp: 404 weft: 389	warp: 87 weft: 83	warp: 43 weft: 43	warp: 736 weft: 740	140			+		+			+
FS1011	86A	1.2	warp: 435 weft: 430	warp: 115 weft: 115	warp: 105 weft: 90	warp: 470 weft: 500	160		+			+	+		+
FS1012	85A	1.18	warp: 465 weft: 340	warp: 135 weft: 135	warp: 115 weft: 100	warp: 555 weft: 520	155		+			+	+		+
FS1013	95A	1.21	warp: 578 weft: 629	warp: 159 weft: 161	warp: 325 weft: 249	warp: 430 weft: 488	153					+			+
FS1014	65D	1.22	warp: 773 weft: 725	warp: 278 weft: 278	warp: 492 weft: 479	warp: 392 weft: 384	185					+			
FS1015	85A	1.2	warp: 462 weft: 433	warp: 98 weft: 87	warp: 76 weft: 71	warp: 715 weft: 739	130					+			
** The data and information provided are for reference only and are not guaranteed.															
■ Ether-based films   ■ Ester-based films															



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	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
	(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: 681 weft: 610	warp: 77 weft: 68	warp: 419 weft: 415	warp: 370 weft: 351	92	4			+	+	+	+	+	+
FTA3296+5.5	50D	1.08	warp: 616 weft: 605	warp: 87 weft: 87	warp: 432 weft: 415	warp: 374 weft: 355	104	4			+	+	+	+	+	+
FSA3295+30	48D	1.12	warp: 670 weft: 636	warp: 112 weft: 109	warp: 418 weft: 420	warp: 393 weft: 387	107	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	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412	(°C)								
FTA3275X39+PEX39	73A	1.07	warp: 218 weft: 193	warp: 24 weft: 25	warp: 24 weft: 22	warp: 675 weft: 685	75			+			+	+	
FS2650-PE	45D	1.19	warp: 450 weft: 450	warp: 115 weft: 115	warp: 85 weft: 75	warp: 800 weft: 810	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	48D	1.19	warp: 318 weft: 296	warp: 77 weft: 80	warp: 72 weft: 64	warp: 903 weft: 891	60			+	+				+
FS3233X1+DZ03P	45D	1.16	warp: 445 weft: 435	warp: 88 weft: 91	warp: 70 weft: 58	warp: 892 weft: 902	90				+	+			+
FS3253X1+DZ03P	65A	1.15	warp: 177 weft: 184	warp: 45 weft: 45	warp: 23 weft: 22	warp: 1011 weft: 1026	100					+			+
FS3258X1+DZ03P	70A	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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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	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412								
FTF1085	50C	0.4	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	0.4	warp: 26 weft: 28	warp: 10 weft: 8.8	warp: 21 weft: 25	warp: 331 weft: 313			+	+	+	+		+
FSF1088	50C	0.4	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	0.3	warp: 21 weft: 13	warp: 8 weft: 8	warp: -- weft: 11	warp: 199 weft: 349			+	+	+	+		+
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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	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
	(Shore A/D) D2240	D792	(kg/cm²) D412	(kg/cm) D624 (Die C)	(kg/cm²) D412	(%) D412	(°C)								
DINDEX 091X3.3	77	1.13	warp: 335 weft: 324	warp: 64 weft: 67	warp: 77 weft: 66	warp: 677 weft: 764	145		+	+			+		+
DZ-TAPE 007+DZ93	70	1.07	warp: 200 weft: 224"	warp: 77 weft: 69"	warp: 67 weft: 47"	warp: 542 weft: 655"	n/a						+		
DINDEX 078X3.3	78	1.19	491	82	79	564	n/a		+			+			+
DZ-TAPE SK81+06	88	1.21	warp: 421 weft: 470	warp: 73 weft: 86	warp: 160 weft: 132	warp: 538 weft: 624	162						+		
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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.

Technical Films 20	Physical Properties	Tensile Strength	Tear Strength	300% Modulus	Elongation	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
		(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		+	+	+	+	+		+
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Dintex® Breathable

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



Physical Properties		Specific Gravity	Tear Strength	M.V.T.	W.P.R.	PE Carrier	Melting Point	Applications	Apparel	Automotive	Electronics	Footwear	Medical	Optical	Outdoor / Sporting Goods
		D792	(kg/cm) D624 (Die C)				(°C)								
High Breathability	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	+	160		+	+		+	+		+
	FS2090GW	1.29	200	700	> 10000	+	155		+	+		+	+		+
	FS2091S	1.20	200	700	> 10000	+	155		+	+		+	+		+
	FS2091SW	1.27	200	700	> 10000	+	155		+	+		+	+		+
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Science. Innovation. Collaboration.

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