

FAITEX

Breathable
Membranes

Last review: 09/2023

 **FAITPLAST**
Solutions. Always.

FAITEX *breathable membranes*

Faitex membranes are very thin film (from 5 my on) with excellent hydrophilic properties (vapour permeability only) and very good water and wind barrier at the same time.

Faitex membranes have following properties:

Breathability: the hydrophilic component of Faitex membranes permits only the passage of water vapour from the inner side to the outer side of the membrane, but does not permit the passage of the water or perspiration drop creating a feeling of dryness and comfort.

Main usage:

Leisure and sportswear: jackets, raincoats, hats, windbreakers, gloves and shoes

Tender: military uniforms, police, workwear garments

Waterproofness: the membrane withstands water entries also during severe weather condition and guarantees a total protection from the atmospheric agents.

Wind Barrier: Faitplast membranes add to the textiles a strong wind barrier also in harsh conditions the result is a comfortable microclimate inside the garment keeping an high brethability level.

Washing resistance: the Faitex membranes maintain unaltered their properties even after many washings and dry-cleanings ensuring a long-lasting useful life of the product

Medical applications: medical gowns, plasters, medical drapes and medical garment

Safety wear: jackets, windbreakers, gloves and shoes

FAITGREEN is a new transversal concept of sustainability of FAIT PLAST

We have developed different products with renewable, compostable or recycled raw material.



With FAITGREEN products you can:

Absorb the CO2 from the environment reducing the global warming.

Reduce the exploitation of natural resources **giving circularity** to your products

Reduce the volume of waste

Convert your products into **compostable material**

PROPERTIES



Elastic



Weatherproof



U.V. resistance



Wash resistance



Water proof & breathable



Recyclable



Possible in colors



FAITEX Performance Properties

TEST	Unite	FAITGREEN CP001 8 µm	FAITGREEN RN101 15 µm	FAITGREEN RN301 15 µm	05 15µm	06/A 15µm 	05 FR 20 µm	07 15µm 	109 15 µm	111 15 µm	120 15µm	1850 8 µm	LinerX 30 µm 
Chemical Base		COMPOSTABLE PES	RENEWABLE PES	RENEWABLE CoPA	TPU				PES				PES
RET Skin Model <small>NF EN 31092 - ISO 11092</small>		+	+++	++++	++	++++	++	+++	+++	+++	+++++	+++	+++
Hydrostatic Pressure * <small>EN ISO 20811 modified</small>	m	> 5	> 10	> 10	> 20	> 10	> 10	> 10	> 10	> 10	> 13	> 5	> 5
Renewable content (3) <small>ASTM D 6866</small>	Certified % BCC (TOC)	NA	18	48	NA	NA	NA	NA	NA	NA	NA	NA	NA
Compostability <small>EN 13432:2002</small>	YES / NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Melting Range <small>DSC ISO 11357-1</small>	°C	120 - 130	185 - 195	150	180 - 195	160 - 180	180 - 195	150-165	185 - 195	205 - 215	210 - 220	205 - 215	Already laminated
Typical Applications	Wind stopper	Sportswear		Leisure Sportswear				Leisure	Work wear	Work wear and protective clothing	Work wear	Cycling	Footwear
	Mattress cover	Workwear		Hunting garments		Fire protective clothing	Sportswear	Sportswear	Sportswear	Technical laminations for industrial usage	Sportswear	Sportswear	
				Shoes	Matt membranes	Shoes		Footwear	Shoes and footwear		Footwear	Work wear	
				Ideally for two and three layers				Special applications		Military apparel police wear	Special applications	Sublimation printing	Special applications
Key Properties	Soft touch			Supersoft Soft touch and comfortable				Supersoft touch	Soft touch	Soft touch and comfortable			With PA fabric
	Compostable	From renewable sources		Very good elasticity		Flame retardant	Very good elasticity	Good elasticity	Good elasticity			Laminated material	
	No PFAS / VOC-free			No PFAS / VOC-free				No PFAS / VOC-free					
	No Noise			No Noise					High melting point	High melting point			
	Standard breathability	High melting point	Very high breathability	High melting point	Excellent mechanical properties elasticity,elongation,abrasion,ecc		Higher breathability	Higher breathability	Higher breathability	Very high breathability		High breathability	

FAITEX Physical and Mechanical Properties

Density* <small>UNI EN ISO 1183-1:2013</small>	g/cc	1,26	1,21	1,10	1,20	1,21	1,40	1,21	1,21	1,20	1,40	1,20	1,20	1,20
Tensile Strength* <small>ISO 527-3/2/200</small>	N	8 9	5 5	5 5	10 10	10 9	10 10	9,5 9,5	9,5 9,5	7 7	6,5 5,5	9 9	4 4	9 9
Elongation at break* <small>ISO 527-3/2/200</small>	%	650 700	580 570	650 650	530 530	560 560	500 400	550 550	800 800	740 740	650 650	650 650	600 700	650 650
Tear Propagation* <small>ISO 34-1:2015</small>	N/mm	100 95	100 100	80 80	50 50	60 60	50 50	60 60	100 100	90 90	90 80	125 125	110 110	125 125

* Typical values obtained from lots of neutral films produced in different widths. Colours and treatment can influence significantly these values.

FAITEX Delivery Specification

Standard thickness	µm	8 - 10 - 15	>15	15 - 20	10 - 15 - 20	>20	10 - 15	>15	10 - 15 - 20	>20	15 - 20	8	30+ fabric	
Standard width	mm	1550				1550			1550				1610	
Roll length	m	up to 1000				up to 1000			up to 1000				up to 250	
Colours		Neutral, matt and white (on request different colours)				Transparent, matt and white (on request different colours)			Transparent and white (on request different colours)				white	
Carrier		With or without carrier				With or without carrier			With carrier	With or without carrier				without carrier
Core Ø	m	76 or 152				76 or 152			76 or 152				76	



*Disclaimer

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With half a century of history, Fait Plast is the leading European producer of technical thermoplastic films, based on advanced polymers. Thanks to our powerful R&D structure, we define complex solutions with the most appropriate and innovative products, in many fields of application. Fait Plast is specialized in the production of tailor-made highly technological films.

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