AITGOM

Thermoplastic polyurethane films



FAITGOM FILMS

Faitgom is a family of thermoplastic polyurethane films (TPU) able to combine the advantages of plastic material with the properties of vulcanized rubber. They are conceived ad-hoc for the most sophisticated markets. The formulation and application know-how developed by Fait Plast, allow us to offer a wide range of solutions targeted to optimize the production process and the product performance of our clients. The polymeric matrix of Faitgom is normally divided in **polyester** (characterized by resistance to abrasion, hydro-carbons, and high mechanical performances) **polyether** (with high resistance to hydrolysis,

Faitgom G

polyester grade, characterized by a very high mechanical and abrasion resistance, resistance to oils and to chemical agents, good performance at low temperatures

Faitgom E

polyether grade, softer than polyester, stable to hydrolysis and resistant to fungi and bacteria attack. Excellent flexibility at low temperatures.

bacteria, and excellent flexibility) **aliphatic** (outstanding UV resistance). Some **special grades** of Faitgom combine a mix of polyester and polyether main characteristics. Faitgom films easily work with the clients existing technologies, such as flame lamination, heat lamination, hot melt, solvent adhesive. They can be welded onto other materials or onto themselves; they can be thermoformed and back foamed. The ease to work with Faitgom films is due to its chemical/molecular structure, therefore they can be worked upon several times, after the first application.

Faitgom A

aliphatic grade, optically transparent, extremely resistant to sunlight.

Faitgom TM

double layer film, with a barrier layer and a thermo adhesive low temperature layer. The melting point difference between the two layers can be adjusted to the requirements of the customer.

Upon request, the Faitgom films can be customized with colors, with various levels of slippery effect, opacity and resistance to ultraviolet radiation. Some grades are available with a flame retardant version.

Faitgom films are often supplied with a polyethylene carrier.
This allows the protection of the roll and makes the processing easier.

Thickness: minimum 15 mm Width: from 5 to 2200 mm Core: 76 mm or 152 mm

Roll Length: depending on the thickness, from 250, 500, 1000 or 2000 meters.

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 envirnoment 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







Water proof & breathable



Low temp. resistance





Strong





Weatherproof



Wash resistance



Weldable with different technologies



Recyclable



Possible in colors







FAITGOM Selection Guide

		Chemical base	Biobas	ed content	Hardness (Sh A)	Meltir Range		Density (g/cc)	Max Wid	lth Mi	n Thickness	Max Thickness (µm)	Carrier	Micro Perforated	Slit	Note		
Faitgom Faitgreen	RN1004	Renewable TPU-es	ster :	>35	88-93	170-18		1,15	2100		20	150	Yes	on demand	on demand			
Ester films	RN1005	Renewable TPU-es	Renewable TPU-ester >40		80-85	145-1	145-170 1,13		2100		20	150	Yes	on demand	on demand	-		
	RN4002		enewable TPU-ether >55 83					1,11	2100		20	150	Yes	on demand	on demand	-		
	RN1006	Renewable TPU-es			80-85			1,13	2100		20 20	150	Yes	on demand	on demand	-		
	RN1007 RC1001		Renewable TPU-ester >65 81-85 Recycled TPU-ester - 91-95			175-210 1,14 145-155 1,22		2100		20 50	150 150	Yes Yes	on demand on demand	on demand on demand				
	CP1003	Compostable CoP		-	71-70	95-13		1,26	2100		10	100	Yes	on demand	on demand	-		
	CP1004		Compostable CoPES			-b 90-110 -t 120-130 1,11		2100		30	120	Yes	on demand	on demand	TM grade			
		Density Thermal Properties (g/cm³)		Shore Hardness (A)	Tensile Stenght (MPa)	Elongation at Break (%)	Modulus At 100% (MPa)	Modulus At 300% (MPa)	Tear Propagatior (N/mm)	Carrier	Properties & A	Applications						
	Standard	DIN EN ISO	UNI EN ISO		DIN ISO													
		1183-1			7619-1		527-3/2/200		527-3/2/200	34-1								
						MD-TD	MD-TD	MD-TD	MD-TD	MD-TD								
Faitgom G	G1	1,20	150-160	145-155	92	50-50	460-460	7-7	20-20	65-65	Yes	Good average of mechanical properties - very good compatibility with foams and injection foams,-water and oil barrier -						
Ester Films	G11	1,19	150-160	150-160	92	50-50	460-460	7-7	20-20	65-65	Yes or No	Same Application of G1 - G11 is also available without carrier						
	G1122	1,20	150-160	150-160	92	37-32	260-260	7-7	20-20	65-65	Yes	Excellent mechanical properties-water and oil barrier-medium softness- crystal clear appareance						
	G777	1,20	170-185	175-185	90	27-27	280-280	4-4	12-12	45-45	Yes or No	Elastic grade - good softness						
	G1899	1,19	175-195	175-185	90	13-13	440-440	5-5	10-10	60-60	Yes or No	Higher Melting point - Soft grade - Cost effective						
	G1615 ESD G1645	1,11 1,16	130-140 165-175	130-140 165-175	85 88	32-32 36-36	360-360 360-360	5-5 10-7	10-10 20-19	50-50 52-52	Yes No	Antistatic Thermoplastic barrier Good average of mechanical properties - good compatibility with foams and injection foams,-water and oil barrier						
	G295 FR	1,16	150-160	150-160	93	40-40	320-320	8-8	20-17	70-70	Yes or No	Flame retardant - Good compatibility with foams and injection foams - Water and oil barrier						
	G275 FR	1,27	150-160	150-160	86	40-32	450 -400	6-5,5	15-13	75-70	Yes or No	Flame retardant barrier softer grade than G295FR						
	G1053	1,21	145-155	150-165	61	25-25	480-480	2,5-2,5	4-4	50-50	Yes	Extremely soft tpu - very good elasticity - plasticizer free						
	G1349	1,16	150-160	150-160	92	50-50	400-400	7-7	20-20	70-70	Yes	Very good elasticity and thermoformability - Good for sharp edges in moulding						
	G1146	1,22	150-160	150-160	92	50-50	400-400	8-8	20-20	70-70	Yes	Very good resistance, special use for intersoles						
	G1226	1,20	175-190	160-170	87	50-50	580-590	4-4	10-10	70-70	Yes or No	Good mechanical performances-transparent and elastic, low migration-suitable for suspended packaging						
	G1296	1,17	175-190	160-170	87	55-56	540-580	5,0-5,5	15-15	65-70	Yes or No	Similar to G1226 with anti-static properties. Low blooming effect						
Faitgom E	E1	1,12	150-160	145-155	80	30-30	520-520	4-4	6,5-6,5	45-45	Yes	Soft - Good me	chanical properties	s – Better adhesion (properties			
Ether Films	E4	1,12	155-165	155-165	85	50-50	700-700	7-7	14-14	60-60	Yes		Higher melting po	int				
	E4/UV	1,12	155-165	155-165	85	50-50	700-700	7-7	14-14	60-60	Yes	UV resistant Ether film						
	E4 cristallo E1352	1,12	155-165	155-165	85	50-50	700-700	7-7	14-14	60-60	Yes	Extremely transparent film Modical application, USD VI cartified, HE woldable						
	E130Z	1,22	160-175	160-175	90	65-65	350-350	8-8	30-30	75-75	Yes	Medical application, USP VI certified, HF weldable						
Faitgom A Aliphatic Films	A2631	1,13	110-130	110-130	92	25-25	300-350	4-4,5	13-13,5	55-60	Yes	Very high UV resistance-good abrasion and mechanical properties-useful for stoneguard application						
Faitgom TM	b		150 140	150 140	02													
Bilayer Films	TM -t	1,08	150-160 na	150-160 80-95	92	35-35	360-360	6,5-6,5	15-15	55-55	Yes	Good mechanic	al properties - Ver	y good compatibility	with foams and inj	ection foams - Wate	er and oil barrier	
	- b	4.40	165-175		84	05.00	100.010	40.4	40.44	F0. (0		On the Heaten		Lancardo da Lancardo	1 . 2 1			
	TM1694 - t	1,12	165-175 95-105	160-170 90-100	-	25-20	420-360	12-6	18-11	50-40	No	Good adhesion to foams and/or other materials -water and oil barrier						
	TM534 - b	1,17	170-180	170-180	90	_	_	_	_	_	Yes	Blackout FR bilayer film						
	- t	1,17	130-140	130-140	-						100	7202/55						
	TM245 - b	1,07	170-180 130-140	145-155 85-100	92	-	-	-	-	-	Yes or No	Multi-purpose bilayer film						
Lorendo	- t - h																eg asse	
Legenda: b = Barrier t = Termoadhesive.	TM554 - t	1,37	170-180 130-140	170-180 130-140	90	-	-	-	-	-	Yes	Blackout bilay	er film- black layer	r=barrier, white laye	r=adhesive		Refe	
		A VANDER						100										

Disclaime

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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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