

FILM SELECTOR GUIDE

INNOVATIVE
SOLUTIONS
for INDUSTRIAL
PRODUCTIONS by



PROCHIMIR

T E C H N I C A L F I L M S

THERMOBONDING SELECTOR GUIDE

		YOUR MATERIALS														
		TEXTILES				WOOD	FOAMS		PLASTICS						ELASTO-MERS	METALS
		Synthetic fibers	Natural fibers	Mineral fibers	Leather		PE	PU	PE	PP	ABS	PS	PET	PVC		
OUR FILMS	EVA	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	PE	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	PP	■	■	■			■	■	■	■		■	■		■	■
	TPU	■	■	■	■	■	■	■			■	■	■	■	■	■
	CoPA	■	■	■	■	■	■	■			■	■	■	■	■	■
	CoPES	■	■	■	■	■	■	■			■	■	■	■	■	■
■ Very good adhesion ■ Good adhesion ■ To be tested																

■ Very good adhesion ■ Good adhesion ■ To be tested

The values contained in this document result from trials and measures done by our laboratory in specific conditions controlled by our R&D. They are given as an indication. We propose you to test those characteristics more accurately for your own applications and uses.

BARRIER FILMS PROPERTIES

- Waterproof
- Industrial fluids
- Physical liquids
- Light (Black-Out)
- Hydrolysis resistance
- UV resistance
- Plasticizers resistance
- PU foam injection

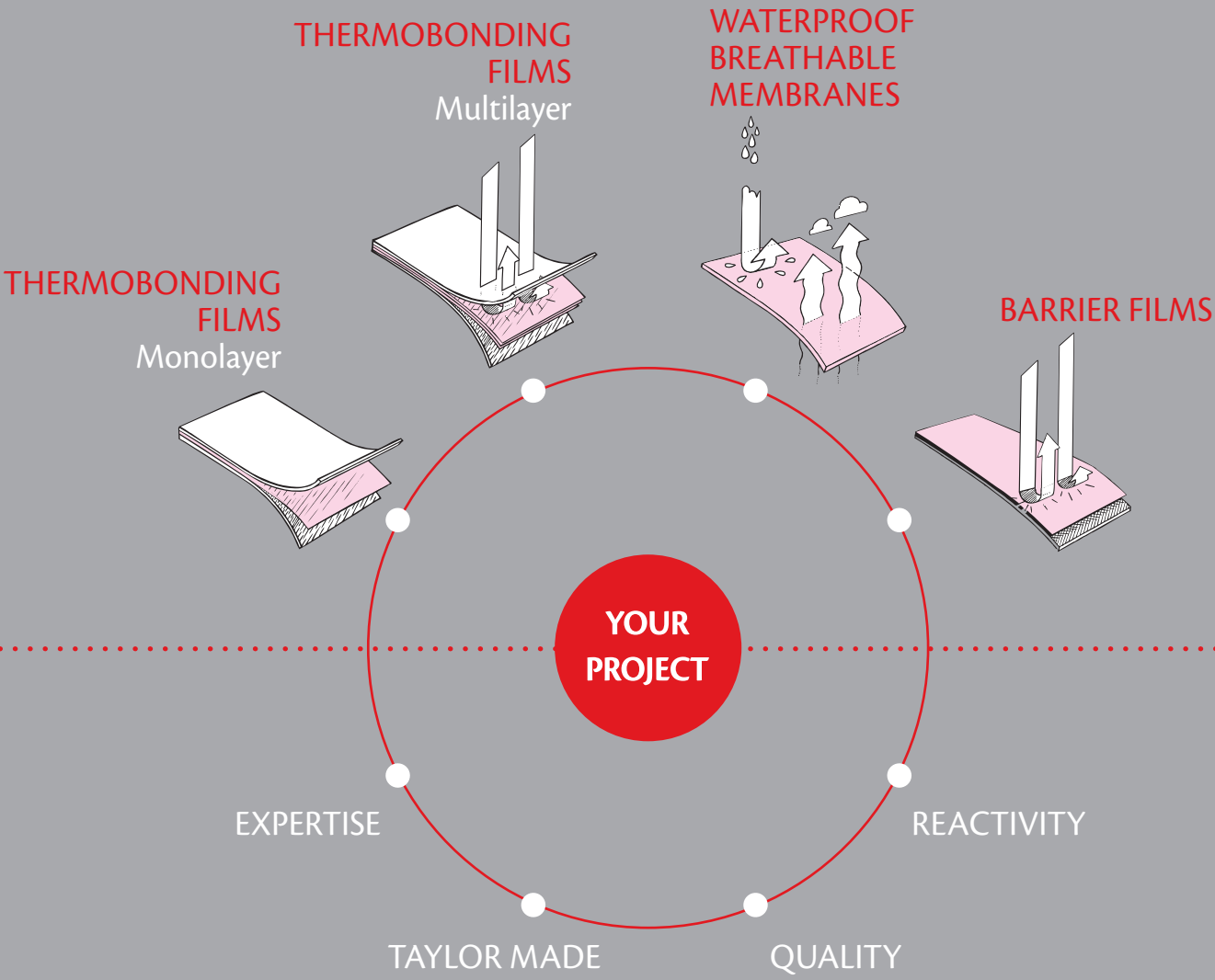
BREATHABLE MEMBRANES PROPERTIES

- Soft
- Flexible
- Breathable
- Waterproof
- Windproof
- Hydrophilic
- Skin friendly

OPTIONS

Corona Treatment, Colors, Micro-perforation, Flame Retardant films, Widths up to 3000 mm, Roll length from 500 lm to 4000 lm

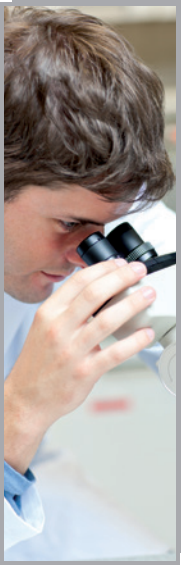
A wide range of films



R&D
Our mission through bonding and extrusion trials is to achieve the best and most cost effective solutions for our customers and their applications.

Production
Dedicated and skilled teams and state of the art machinery assure high and permanent quality production capacity. This not only secures the supply chain of the customers, but enables to react quickly to emergency cases.

Quality
More than 25 years of experience in the production of technical films as well as the Iso certification ensure our customers of receiving quality products.



THERMOBONDING FILMS

	POLYOLEFINS					TPU					CoPA - CoPES		
Films	TC 1027	TC 1007	TC 1500	TC 1700	TC 3070	TC 5002	TC 5006	TC 5009	TC 5011	TC 5017	TC 203	TC 255	TC 420
Nature	EVA	EVA	PE	PE	PP	TPU	TPU	TPU	TPU	TPU	CoPA	CoPA	CoPES
Melting range (°C)	65-85	90-95	100-105	120-130	130-140	40-60	70-85	100-105	115-125	145-160	105-115	115-120	110-125
Fluidity	High	Medium	Medium	Low	Medium	Low	Medium	Medium	Medium	Medium	High	High	High
Washing resistance (°C)	-	60	60	60	60	-	30	30	60	60	60	-	60
Dry cleaning resistance	-	-	-	-	-	-	-	+	+	+	+	-	+
Plasticizers resistance	-	-	-	-	-	+	-	-	-	-	+	-	+
Hydrolysis resistance	+	+	+	+	+	-	-	-	-	-	+	-	+
Minimum thickness (µm)	25	25	25	25	30	15	15	15	15	15	15	15	15
Structure*	A	A	A	A	A	A/S	A/S	A/S	A - A/S	A - A/S	A/S	A - A/S	A - A/S
Comments	High fluidity EVA for textile applications	EVA for foam and metal applications	Versatile PE film with large bonding range	Excellent adhesion on bituminous heavy layers, metals and elastomers	Special PP bonding film	Excellent adhesion on flexible PVC	Low melting TPU adhesive for delicate substrates	Versatile TPU bonding film	Excellent bonding on PU foams and textiles	Excellent bonding on PU foams and textiles	Strong adhesive, barrier to PVC plasticizers	Steam activable CoPA	Strong CoPES adhesive

* A: Adhesive B: Barrier S: PE Carrier

ADHESIVE + BARRIER FILMS

	POLYOLEFINS							TPU				CoPA	
Films	TC 1027 CX 00	TC 1500 CX 01	TC 1600 CX 80	TC 1600 CX 92	TC 3300 CX 18	TC 3300 CX 70	TC 5125 CX 18	TC 5025 CX 03	TC 5020 CX 11	TC 5563 CX 11	TC 4070 CX 20	TC 203 CX 176	TC 5526 CX 205
Nature	EVA/PE	PE/PE	PE/CoPA	PE/PP	EVA/PP	PP/PP	EVA/TPU	TPU/TPU	TPU/TPU	TPU/TPU	TPU/CoPES	CoPA/PE	CoPA/TPU
Adhesive melting range (°C)	75-85	100-105	100-120	105-110	80-90	130-140	80-90	70-85	115-125	115-125	145-155	115-130	120-130
Barrier melting range (°C)	120-130	120-130	210-220	160-170	160-170	160-170	160-175	160-180	145-155	180-185	215-225	110-120	165-170
Fluidity (adhesive layer)	High	Medium	Low	Low	Medium	Medium	Medium	Medium	Medium	Medium	Medium	High/Low	High
Washing resistance (°C)	-	60	60	60	60	60	60	30	60	60	60	60	60
Dry cleaning resistance	-	-	-	-	-	-	-	-	+	+	+	-	+
Plasticizers resistance	-	-	-	-	-	-	-	-	-	-	-	+	+
Hydrolysis resistance	+	+	+	+	+	+	-	-	-	-	-	+	+
Minimum thickness (µm)	25	25	60	30	30	30	25	20	40	20	35	25	25
Structure*	A/B - A/B/A	A/B - A/B/A	A/B/A	A/B - A/B/A	A/B	A/B - A/B/A	A/B - A/B/A	A/B - A/B/S	A/B/A	A/B	A/B - A/B/A	A/A	A/B
Comments	Low melting EVA film with PE barrier	General purpose multilayer PE film	High temperature multilayer film for thermocompression	Multilayer film with good elongation properties	Bilayer film with good resistance to industrial fluids	High temperature multilayer film with good resistance to industrial fluids	Strong EVA adhesive with high temperature TPU barrier	Bilayer TPU film for foam covering	Trilayer TPU film	Bilayer TPU film with high chemical resistant Ether barrier	TPU adhesive with a stable CoPES barrier up to 200°C	Specific film to bond ABS / PC and PA on other subvstrates	Bilayer film combining a strong adhesive and a high chemical resistant barrier

* A: Adhesive B: Barrier S: PE Carrier

BARRIER FILMS

	POLYOLEFINS		TPU Ester				TPU Ether		CoPES	CoPA
Films	TC 1260	TC 3300	TC 5015	TC 5018	TC 5025	TC 5030	TC 5530	TC 5562	TC 4070	TC 206
Nature	PE	PP	TPU	TPU	TPU	TPU	TPU	TPU	CoPES	CoPA
Melting range (°C)	110-115	160-165	140-160	150-160	160-175	170-190	150-170	180-185	215-225	110-120
Hydrolysis resistance	+	+	-	-	-	-	+	+	+	+
UV resistance	+	+	-	-	-	-	-	+	-	+
Minimum thickness (µm)	25	30	15	15	15	15	15	15	20	15
Structure*	B	B	B - B/S	B - B/S	B - B/S	B - B/S	B - B/S	B - B/S	B	B - B/S
Comments	PE barrier	High elongation PP barrier	Crystal clear TPU barrier with high mechanical properties	Recommended film for foam injection	Recommended film for flame lamination	Elastic TPU film	HF Weldable TPU film for inflates	UV stabilized TPU film	Very high temperature resistant barrier	Barrier to PVC plasticizers

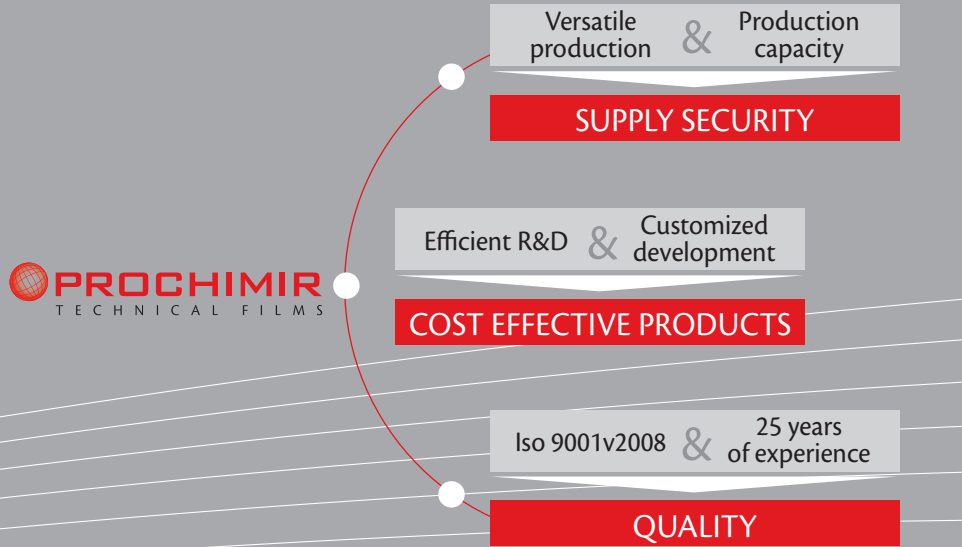
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MEMBRANES

	TPU			CoPA - PES				PES
Films	AA 5360	AA 5364	IRT3	IR Type A	IR Type N 2.0	IR Type N 5.0	IR Type E	B & B
Nature	TPU	TPU	TPU	PEBA	PES	PES	PES	PES
Melting range (°C)	160-170	160-170	145-160	150-160	180-190	190-200	210-220	175-185
MVTR (g/m²/24h)	< 1 000	< 1 000	> 3 000	> 3 500	> 3 500	> 3 000	> 3 000	> 3 000
RET	N.A.	N.A.	3.3	N.A.	2	5	8.5	0,8 // 7
Hydrostatic Head (mmH2O)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Minimum thickness (µm)	15	15	12	15	12	12	12	15
Structure*	B - B/S	B - B/S	B - B/S	B - B/S	B - B/S	B - B/S	B - B/S	B & B/S - B & B
Comments	Dedicated to mattress protection	Oekotex® dedicated membrane for mattress protection	High breathable membrane	Food and drugs application	High performance and soft PES membrane	High temperature resistant PES membrane	Dedicated breathable PES membrane for sublimation	Two sides effect membrane, especially performant in rainy conditions

* A: Adhesive B: Barrier S: PE Carrier

** intern method ASTM E96 B-like (upright cup)



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