

# TECHNICAL TEXTILES

FILM SELECTOR GUIDE

INNOVATIVE  
SOLUTIONS  
for INDUSTRIAL  
PRODUCTIONS by



**PROCHIMIR**

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



## MONOLAYER FILMS

Films	POLYOLEFINES				TPU						CoPA - CoPES	
	TC 1004	TC 1018	TC 1060	TC 3070	TC 5006	TC 5009	TC 5011	TC 5017	TC 5025	TC 5030	TC 203	TC 420
Nature	EVA	EVA	EVA	PP	PU	PU	PU	PU	PU	PU	CoPA	CoPES
Melting range (°C)	75-85	80-85	105-115	130-140	70-85	95-105	115-125	145-155	160-175	170-190	110-120	115-120
Fluidity	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	High	High
Washing resistance (°C)	-	60	60	60	30	30	60	60	90	90	60	60
Dry cleaning resistance	-	-	-	-	-	yes	yes	yes	yes	yes	yes	yes
Hydrolysis resistance	+	+	+	+	-	-	-	-	-	-	+	+
HF weldability	yes	yes	-	-	-	yes	yes	yes	yes	yes	yes	yes
Minimum thickness (µm)	25	25	25	30	15	15	15	15	15	15	15	15
Structure	A	A	A	A	A/S	A/S	A - A/S	A - A/S	B - B/S	B - B/S	A/S	A - A/S
Comments	Strong adhesive with low activation temperature	EVA for foam and textile applications	EVA for high temperature applications	Special PP bonding film	Excellent PU bonding film for leather applications	Versatile PU bonding film	Excellent bonding on PU foams and textiles	Excellent bonding on PU foams and textiles	PU barrier for flame lamination	Elastic TPU film	Strong adhesive, barrier to PVC plasticizers	Strong CoPES adhesive

## MULTILAYER FILMS

Films	POLYOLEFINES			TPU		CoPA	
	TC 1027 CX 00	TC 1018 CX 00	TC 5125 CX 18	TC 5025 CX 03	TC 5020 CX 11	TC 203 CX 176	TC 5526 CX 205
Nature	EVA/PE	EVA/PE	EVA/PU	PU/PU	PU/PU	CoPA/PE	CoPA/PU
Adhesive melting range (°C)	75-85	80-85	80-85	70-85	115-125	115-130	110-120
Barrier melting range (°C)	115-120	115-120	160-175	160-175	145-155	110-120	165-170
Fluidity (adhesive layer)	High	Medium	Medium	Medium	Medium	High/Medium	High
Washing resistance (°C)	-	60	60	30	60	60	60
Dry cleaning resistance	-	-	-	-	yes	-	yes
Hydrolysis resistance	+	+	-	-	-	+	+
HF weldability	-	-	yes	-	yes	-	yes
Minimum thickness (µm)	25	25	25	20	40	25	25
Structure	A/B - A/B/A	A/B - A/B/A	A/B - A/B/A	A/B - A/B/S	A/B/A	A/A	A/B
Comments	Low melting EVA film with PE barrier	General purpose multilayer PE film	Strong EVA adhesive with high temperature PU barrier	Bilayer PU film for textile protection	Trilayer PU film for water and windproof laminates	Dual high temperature adhesive film for demanding assemblage	Bilayer film combining a strong adhesive and a high chemical resistant barrier

## MEMBRANES

Films	POLYOLEFINES	TPU			PES		
	AA7070	AA 5360	IRT 1	IRT 4	IR type A	IR type N	IR type E
Nature	PP	PU	PU	PU	PES	PES	PES
Melting range (°C)	130-140	160-165	160-165	160-170	150-160	200-210	210-220
Washing resistance (°C)	60	95	95	95	60	95	95
MVTR (g/m²/24h)*	< 500	< 1000	< 1000	3500	3500	2850	2500
RET	N.A.	N.A.	N.A.	0,8	0,8	0,7	1,2
Water column (mm)	10000	10000	10000	10000	10000	10000	10000
Minimum thickness (µm)	30	15	15	12	15	12	12
Structure	B	B - B/S	B - B/S	B - B/S	B - B/S	B - B/S	B - B/S
Comments	PVC alternative membrane	Dedicated to mattress protection	UV stabilized TPU membrane	High breathable membrane	Medical applications	High performance and soft PES membrane	High temperature PES membrane

\* ASTM E96-53T (upright cup)



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