

success is personal

Adhesive solutions in roll form









Manufacturer of hotmelt thermoadhesive webs, nets and films



Adhesive solutions in roll form

Protechnic offers advanced adhesive solutions to meet your challenging lamination requirements. Whether you need improved performance, added functionality, streamlined production or reduced cost, Protechnic's range of hot-melt webs, films and nets will help you achieve your goal.

Technical

Our wide range of polymers, structures, dimensions, performance characteristics and technical features enables us to offer the optimal adhesive solution meeting all of your technical requirement.

Aesthetic

The optimal adhesive solution is one that will preserve the look, feel and flexibility of your substrates.

Ecological

Our solvent-free adhesives are clean and efficient to use : 1 meter of adhesive = 1 meter of laminate. No wasteful set-up process is required and most of our products emit no VOC's.

Economical

Our high performance polymers allow you to lower the adhesive weight and therefore reduce cost. Development cycles are shortened and small scale trials are easily duplicated in production. The simplicity of the process limits waste and production errors.

Protechnic provides you with a complete solution

- Assistance in defining the specifications of your project
- Expert guidance in identifying the right dry adhesive solution
- Help in determining the optimal processing conditions

Protechnic products are used worldwide and supported by our international sales network and support facilities.

Customized solutions

This product listing is intended to show our range of capabilities, not all product possibilities. Our real strength is providing custom engineered solutions which meet the specific needs of our customers. By exploring raw material options and blends, co-extrusions and material combinations, we can develop a solution tailored to your application. Whether it's improved performance, added functionality, streamlined production or reduced cost, **Protechnic will help you achieve**

Protechnic will help you achieve your goal.



Nets

Recommended for open, permeable or flexible applications.

• 7 patterns available with varying degrees of openness.

• More bond strength than a web or film of equal weight due to adhesive thickness.

• Regular and consistent distribution of adhesive across the surface of your substrates.

• Increased flexibility and breathability of the laminate compared to webs and films.





- = produced without backing D = detached from carrier P = with paper backing F = with PE film backing
- VOC-free = VOC < 100PPM low VOC = VOC from 101 to 200 PPM medium VOC = VOC > 200 PPM

CoPA = copolyamide
 CoPES = copolyester
 TPE = thermoplastic polyester elastomer
 TPU = thermoplastic polyurethane
 PO = polyolefin



Webs



Best compromise of weight, softness and performance.

- Available in weights as light as 4 grams per square meter.
 Used in many industrial applications.
 Rough surface enables good bonding and thermoforming.
 Easy to unroll and process, no air entrapment during lamination.
 Maintains the softness and flexibility of light substrates.
 Available in bi-layer (bi-component) form.
 All webs can be directly coated on your material,



Reference	Base	Backing 1	Min. activation temperature ° c	Viscous type based on MVR	Weight from - to gr/m ²	Maxi width mm	Main markets	Main features	VOC 2
					COPOLYA	MIDE			
B18	Web	S/P	90	very low	8 - 60	2200		Fluid, can be activated by steam	
158	Web	S	90	low to medium	12 - 30	2200		Versatile, biobased	free
178	Web	S	95	medium	8 - 60	2200		Chemical resistant, low melt, efficient	free
A78	Web	S	100	medium	20	2200		Flame retardant properties	
BK8	Web	S/P	100	low to medium	8 - 80	2200		Adapted to textile lamination, good dry cleaning resistance	
198	Web	S	110	medium to high	12 - 80	2200		Chemical resistant, for difficult substrates	low
BW8	Web	S/P	110	low	6 - 50	2200		Versatile, wash resistant	
1G8	Web	S/P	110	low to medium	4 - 90	2200		Wash resistant, dry cleanable, versatile	
AN8	Web	S	110	low to medium	10 - 50	2200		Versatile	med
1Z8	Web	S/P	125	low	12 - 50	2200		Non-polar substrates, soft	free
1A8	Web	S	130	low to medium	12 - 50	2200		Heat resistant	
BC8	Web	S	165	very high	4 - 50	2200		High melt , high dry cleaning resistance available in low weight	j low
					COPOLYE	STER			
9D8	Web	S/P/F	85	low to medium	8 - 60	2200		Low melt, plasticizer resistant, for delicate substrates	free
ZQ8	Web	S/P	100	high	12 - 50	2200		Copolyether web, flexible for textile and foam applications	free
998	Web	S/P	105	medium	6 - 70	2200		Can be activated by HF, good wash resistance, tin free version = 9G8	free
ZK8	Web	S	115	medium	6 - 60	2200		Versatile and competitive web	
9 B 8	Web	D	115	low to medium	16 - 80	1900		Soft, wash resistant	
978	Web	S	120	low to medium	12 - 75	2200		Versatile, tin free	low
ZM8	Web	S	120	low	12 - 75	2200		Flame retardant properties, tin free	low
YF8	Web	S	140	medium	16 - 50	2200	🖨 🗖 🗖	High melt, heat resistant, tin free	free
YR8	Web	S	140	medium to high	20 - 25	2200		High viscosity, high melt, tin free	free
					POLYOLE	FINE			
CZ8	Web	S	75	very low to low	16 - 100	2200		Elastic, soft, low melt	free
3B8	Web	S	100	very low to low	14 - 50	2200		Good for wadding	free
					POLYURET	HANE			
6C8	Web	D/P/F	70	medium to high	8 - 140	1900		Low melt, for difficult substrates & PVC	med
UG8	Web	D/P/F	105	very low to low	12 - 70	1900		Elastic, soft, chemical resistant, good for knitwear, tin free ester aliphatic	med
UV8	Web	D/P/F	105	medium	12 - 70	1900		More viscous, soft, elastic tin free ester aliphatic	med

Films

Recommended for applications requiring economical, full surface bonding.

- Adhesive distributed evenly across the surface of your substrates.
 Wide range of weights and widths, up to 3000 mm.
 Available in bilayer (bi-component) form.
 Most films can be slit (perforated), up to 2500 mm.

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Refere	ence Base	Backing 1	Min. activatio temperatur ° c	PN Viscous type based on MVR	Weight from - to gr/m ²	Thickness min max. µm	Maxi width mm	Mair	n markets	Main features	VOC 2
					COF	POLYAMIE	ЭE				
17	9 Film	D/F	100	medium	22-80		2200			High-tech, good bonding	
19	9 Film	F/D/P	115	medium to high	22-220		2200			Low melt, chemical resistant	
					CO	POLYESTE	R				
YD	9 Film	D/F	85	medium	30-60		2500			Low melt COPES film	low
9T	9 Film	D/F	100	high	30-60		2500			Low melting point, for CoPES textiles and non-woven	
ZQ	9 Film	D/F	100	high	25		2500			Copolyether ester film, flexible, adapted for textile and foam applications	S
97	9 Film	D/F/P	110	high	20-60		2400			Versatile	
YV	9 Film	D/F	140	high	20-60		2400			High melt, heat resistant	
921	Membran TPE	D/F	195 <mark>G</mark>	very high	_	12-100	2200			lmpact resistant, ester membrane	
941	Membran TPE	D/F	195 G	very high	_	12-100	2200			lmpact resistant, ester membrane	
					PO	LYOLEFIN	E				
DD	9 Film	S	65	high	23-52		2500			Very low melting point and fast flowing.	
DF	9 Film	S	70	high	21-95		2500			Very low melting point and fast flowing	
3X	9 Film/Slit fil	m S/E	75	high	21-95		2500			Versatile, low melt, high-runner	med
5X	9 Film/Slit fil	m S/E	80	high	23-95		2500			Competitive low melt EVA based	med
3W	9 Film	S	80	high to very high	19-120		2500			Soft	
3R	9 Film	S	90	high	23 - 140		2500			EAA based product good for non-woven, foam, aluminum	
3L	9 Film/Slit fil	lm S/E	95	medium to high	19-94		1800			Very fluid, anti-fraying, good for jean's belt loop and felt	
3P	9 Film/Slit fil	lm S/E	100	very high	23-140		2200			Versatile	
4 B	9 Film	S	125	very high	23-50		2500			High melt	
СК	9 Film/Slit fil	m S/E	130	high to very high	26-32		2500			High melt	
4 A	9 Film/Slit fil	m S/E	130	very high	23-55		2500			High melt PP for PP substrates	
					POL	YURETHAI	NE				
6B	9 Film	F	75	high	-	25-100	2500			Low activation temperature	
6A	9 Film	F/P	95	high	-	15-150	2200			Stretch, high wash resistant	
UV	9 Film	S	115	very low to low	-	25-60	2500	H		Ester aliphatic, chemical resistance, elasticity	
6M	B barrier of high melt T	r D/F PU D/F	145 🔕	very high	-	20-150	1700			Good resistance to hydrolysis, ester	
6W	B barrier of high melt T	r F PU F	162 🔕	very high	-	15-120	2500			High melt, ether	

🛿 Product with barrier, check TDS (Technical Data Sheet). 💿 Bi-layer minimum activation temperature high melt product, check TDS. • Product with membrane, check TDS. • special, check TDS + ADS (Application Data Sheet)

Thermoplast

your bonding solution !

Multifunctional products

Recommended for applications requiring adhesive plus added functionality.

- Combine the performance and functionalities of different polymers and/or structures. • Up to five layers may be coextruded into a single film to build functions such as
- adhesive, air/liquid barrier, opacity, light diffusion, fire retardant, etc.
- Adhesive layers may be the same or different polyme
- Many polymer combinations are possible.

• Microporous membrane may be combined with an adhesive web.

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Reference	Base 3	Backing 1	Activation temperature mini - maxi °C	Viscous type based on MVR	Weight from - to gr/m ²	Thickness min max. µm	Maxi width mm	Main markets	Main features	VOC 2
5XA	2 Layer Film PO	S	75 - 110 🔕	high	23-93		2500		Fast activation, low melt	
5XD	3 Layer Film PO	3 Layer Film PO S		high	23-95		2500		Fast activation, low melt	med
5AD	3 Layer Film PO	S	100 - 110 🛆	high to very high	23-189		2500		Barrier effect, competitive, viscous	
5AA	2 Layer film PO	S	100 - 110 🔕	high to very high	23-188		2500		Competitive, viscous	
2XC	2 Layer film PA/PO	D/F	90 🖪	medium to high	20-60		2200		Good bonding, high-tech, versatile	
2PC	2 Layer film CoPA/PO	D/F	115 B	high	30		2500		Adapted to bond two different substrates	
4PC	2 Layer film COPA/PO	D/F	130 🕒	very high	24-95		1800		Excellent to bond PVC or PU foam on natural or PP fibe	rs
7ED	3 Layer film TPU	D/F	100 - 150 🔕	very high	_	20-90	2200		Soft, versatile	
7GA	2 Layer film TPU	D/F	100 - 150 🔕	very high	_	25-100	2200		Soft, versatile	
81W	Bi-polymer we	D/F	95 🛽	low to medium	20-30		1900		Low emission product, adapted to leather bonding	g free
92M/9B8	Membrane/we TPE	^b D/F	115 - 195 G	N.A.	15 - 50		1900		Impact resistant, Copes web on ester membrane	
838	Special	Р	120 🖸	very low	20-40		1500		Post reactive web which will react through heat	
							1			
	1000				11				Hvbr	id

Hybrid

Hybrid product is a new technology, which offers a structure between webs and films.

• Having a product which can compare to film,

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- but being more soft & flexible and more breathable.
- Suitable for die cutting applications, without risk of fraying in the edges.
- No shining through light fabrics like with web or net structure.



Reference	Base 3	Backing 1	Mini. activation temperature °c	Viscous type based on MVR	Weight from - to gr/m ²	Maxi width mm	Main markets	VOC 2
6CH	Hybrid	D/P/S	70	medium to high	8-140	1900		med
17H	Hybrid	D/P/S	95	medium	8-60	2200		free
19H	Hybrid	D/P/S	110	medium to high	12-80	2200		low
97H	Hybrid	D/P/S	120	low to medium	12-75	2200	🖨 💾 👕	free
YFH	Hybrid	D/P/S	140	medium	16-50	2200		free



Overview of technologies

Technology	Product	Maxi. width trimmed - mm	Raw materials •	melt ° c mini - maxi	Viscosity (MVR)	Weight gr/m²
Web	web with or without paper or film carrier	1950	CoPA CoPES TPU	80 - 190	from very fluid to mid viscous	from 4 to 80
Web	web without backing	2250	CoPA CoPES TPU PO	80 - 190	from fluid to viscous	from 4 to 60
Net	net on paper carrier	1500	CoPA CoPES EVA TPU	45 - 150	fluid	from 13 to 50
Net	net without carrier	1600	CoPA CoPES	100 - 160	fluid to mid viscous	from 23 to 60
	adhesive film up to 5 layers	2000	CoPA CoPES PO EVA TPU	50 - 180	from viscous to very viscous	from 20 to 200
	wide width from open bubble	3200	TPU CoPA PO	50 - 180	from viscous to very viscous	from 20 to 150
Blown film	barrier film / membrane film	2500	TPE TPU PO	150 - 220	-	from 15 to 100
	slit film	2500	PO EVA CoPES	70 - 150	from viscous to very viscous	from 20 to 100
	on paper backing	1800	CoPA CoPES TPU	50 - 150	from mid fluid to mid viscous	from 15 to 150
	hybrid on paper carrier	1900	CoPA CoPES TPU	90 - 150	from very low to medium high	from 35 to 90
	hybrid without carrier	2250	CoPA CoPES TPU	90 - 150	from very low to medium high	from 35 to 90

• CoPA = copolyamide / CoPES = copolyester / TPE = thermoplastic polyester elastomer / TPU = thermoplastic polyurethane / PO = polyolefin

Lamination or transfer coating with Protechnic products is an environmentally friendly process that can be achieved on various types of equipment :





A unique range to fit all of your bonding needs

Composites

Other applications for high performance thermoadhesive :



Acoustics





Aircraft

Public transport

Yachting



Domestic

textiles



Technical

textiles





Garment & accessories

Leather goods

Success is personal ! Thermobonding customized to meet your needs

Protechnic Thermoplast is a global leader in the production of thermoadhesive roll goods. We have a unique range of net, web and film products and support you with a dedicated salesforce and technical staff. Partnering closely with our customers leads us to constant R&D innovation and the best, most competitive thermobonding solutions for your lamination process.

Your added value when choosing Protechnic

• Premium products

Automotive

- · Efficient and responsive service
- Reliable technical support
- Compliance with ISO 9001 guality standards
- Global coverage

Contact Protechnic Thermoplast



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