

### Laminates

Textile or Film	Film Substrate (current products)	Film Thickness inches (mm)	Common Constructions <sup>2</sup>	Notes
Non-woven (Polyester, PP, rayon, blends)	PVC, PE, PP, EVA, TPU	> 0.004 (0.102)	AB, ABA, ABA <sub>1</sub> , BAB	Soft Feel, Basis weight from 0.7-3.6 oz/yd <sup>2</sup> (23.7-122 gm/m <sup>2</sup> )
Unbroken Loop (Nylon, Polyester)	PVC, EVA, TPU	> 0.009 (0.229)	AB	Basis weights from 2-6 oz/yd <sup>2</sup> (67.8-203 gm/m <sup>2</sup> )
Brushed Polyester	PVC, EVA, TPU	> 0.009 (0.229)	AB	Soft feel knit material
Woven or Weft Insert Scrim	PVC, EVA, TPU	> 0.005 (0.127) per side > 0.010 (0.254) total	ABA, ABA <sub>1</sub>	Dimensional Stability, Strength
Poly/Cotton Woven	PVC	> 0.006 (0.152)	AB	Excellent strength
Film to Film	Most Wiman Films	> 0.005 (0.127) per side > 0.010 (0.254) total	AA <sub>1</sub> , AA <sub>1</sub> A	Dual Film Properties

<sup>1</sup> This Line Card is indicative of commercial products. Please call Wiman to discuss options for materials not listed.

<sup>2</sup> A : Polymer Film, A<sub>1</sub> : Alternate Polymer Film, B : Textile  
Wiman will also toll laminate your films and fabrics.

### Films

Thermoplastic Polymer	Common Name	Thickness Range (inches)	Max Width <sup>2</sup> (inches)	Clear / Opaque	Rigid / Flexible	Sealing Methods	Value Added Options Available				
							Weatherable/Enhanced UV Protection	Flame Retardant	Static Dissipative / Conductive	Blends	Laminates <sup>3</sup>
Flexible PVC	PVC	0.005 to 0.060	60	C/O	F	RF, Heat, Ultrasonic	U	✓	C	TPU	NW, UBL, BP, S, F
Flexible PVC	PVC	0.061 to 0.187	48	C/O	F	RF, Heat, Ultrasonic	U	✓	C	TPU	NW, UBL, BP, S, F
Rigid PVC	PVC	0.001 to 0.016	62	C/O	R	RF, Heat, Ultrasonic	U	✓	C	ABS	-
Polypropylene	PP Homopolymer/ Copolymer	0.002 to 0.035	60	C/O	F/R	Heat, Ultrasonic	U	✓	S, C	EVA, PE	NW, UBL, BP, S, F
Polyethylene	LDPE, LLDPE, HDPE	0.004 to 0.035	60	C/O	F/R	Heat, Ultrasonic	U	✓	S, C	EVA, PP	NW, UBL, BP, S, F
Olefin Elastomers	TPO, POE, Metallocene	0.004 to 0.035	60	C/O	F	Heat, Ultrasonic	U	✓	-	EVA, PP, PE	NW, UBL, BP, S, F
Ethylene Vinyl Acetate	EVA	0.004 to 0.035	60	C/O	F	RF, Heat, Ultrasonic	U	✓	-	PP, PE	NW, UBL, BP, S, F
Polyurethane (Ether or Ester)	TPU	0.006 to 0.060	60	C/O	F/R	RF, Heat, Ultrasonic	-	✓	S, C	PVC	NW, UBL, BP, S, F
Polyurethane (Ether or Ester)	TPU	0.061 to 0.125	48	C/O	F	RF, Heat, Ultrasonic	-	✓	S, C	PVC	NW, UBL, BP, S, F
Polyurethane (Aliphatic) <sup>4</sup>	TPU	0.003 to 0.012	56	C	F	RF, Heat, Ultrasonic	W	-	-	PMMA	-
Acrylic (Impact Modified)	PMMA	0.0015 to 0.015	62	C/O	R	Heat, Ultrasonic	W	✓	-	TPU	-
Acrylic (UV Screening)	PMMA	0.003 to 0.010	62	C/O	R	Heat, Ultrasonic	W	-	-	-	-
Acrylonitrile Butadiene Styrene	ABS	0.002 to 0.030	60	C/O	R	Heat, Ultrasonic	-	✓	S	PVC	-
Bio-based (poly lactic acid)	PLA	0.002 to 0.030	60	C/O	R	Heat, Ultrasonic	-	-	-	-	-
Co-polyester	PETG, PCTG	0.002 to 0.016	62	C/O	R	RF, Heat, Ultrasonic	U	✓	-	-	F
Polyester Elastomer	COPE	0.002 to 0.016	62	C/O	F/R	Heat, Ultrasonic	-	-	-	-	-
Polycarbonate	PC	0.002 to 0.012	62	C/O	R	Heat, Ultrasonic	U	✓	S, C	PBT	-

<sup>1</sup> This Line Card is indicative of commercial products. Please call Wiman to discuss options for materials not listed.

<sup>2</sup> Actual max width may be less for some embossment and thickness combinations. Depending on material, thickness and laminate structure, slitting may be available down to 1" widths.

<sup>3</sup> Laminate types: Non-woven (NW), Unbroken Loop (UBL), Brushed Polyester (BP), Scrim (S), Film to Film (F).

<sup>4</sup> Only available with a matte surface finish and on a coated PET release liner.

Wiman will also toll manufacture film from your formulations. Copyright 2018 Wiman Corporation, 04/18