

## Twintex® Reinforcements

Twintex® reinforcements are co-mingled thermoplastic and glass fibers that provide high glass content, and excellent stiffness-to-weight ratio and impact resistance. The proprietary product also helps meet environmental regulations and is recyclable.

### Twintex® Reinforcements

PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	GLASS CONTENT (% BY WEIGHT)	TP RESIN	NOMINAL WEIGHT	NOMINAL WEIGHT	
Twintex® Roving	TW TR PP 60 BLACK 1870	TW TR PP 60 BLACK 1870	60%	PP	1870 Tex	265,26 y.p.p	
	TW TR PP 60 NATURAL 1870	TW TR PP 60 NATURAL 1870	60%	PP	1870 Tex	265,26 y.p.p	
	TW TR PP 82 NATURAL 1398	TW TR PP 82 NATURAL 1398	82%	PP	1398 Tex	354,83 y.p.p	
	TW TR PET 70 NATURAL 1345	TW TR PET 70 NATURAL 1345	70%	PET	1345 Tex	368,81 y.p.p	
PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	DIMENSIONS <sup>1</sup>	DIMENSIONS <sup>2</sup>	COLOR	FEATURES	PROCESS
Twintex® Roving	TW TR PP 60 BLACK 1870	TW TR PP 60 BLACK 1870	N/R	N/R	Salt & Pepper	Direct roving	Pultrusion, pull extrusion, filament winding, weaving, hybrid thermoplastic (except TW, TR and PET)
	TW TR PP 60 NATURAL 1870	TW TR PP 60 NATURAL 1870	N/R	N/R	Natural	Direct roving	
	TW TR PP 82 NATURAL 1398	TW TR PP 82 NATURAL 1398	N/R	N/R	Natural	Direct roving	
	TW TR PET 70 NATURAL 1345	TW TR PET 70 NATURAL 1345	N/R	N/R	Natural	Direct roving	

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PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	GLASS CONTENT (% BY WEIGHT)	TP RESIN	NOMINAL WEIGHT	NOMINAL WEIGHT
Twintex® Fabrics	TW TF PP 60 745 Black Twill	WRt0750-PP60B	60%	PP	745 g/m <sup>2</sup>	22 Oz/Yd <sup>2</sup>
	TW TF PP 60 745 Natural Twill	WRt0750-PP60W	60%	PP	745 g/m <sup>2</sup>	22 Oz/Yd <sup>2</sup>
	TW TF PP 60 1485 Black Twill	WRt1490-PP60B	60%	PP	1485 g/m <sup>2</sup>	44 Oz/Yd <sup>2</sup>
	TW TF PP 60 1485 Natural Twill	WRt1490-PP60W	60%	PP	1485 g/m <sup>2</sup>	44 Oz/Yd <sup>2</sup>
	TW TF PP 60 980 Black Twill	WRt0980-PP60B	60%	PP	980 g/m <sup>2</sup>	29 Oz/Yd <sup>2</sup>
	TW TF PP 60 980 Natural Twill	WRt0980-PP60W	60%	PP	980 g/m <sup>2</sup>	29 Oz/Yd <sup>2</sup>
	TW TF PP 60 935 Black Plain 4/1	WRx0940-PP60B	60%	PP	935 g/m <sup>2</sup>	27.5Oz/Yd <sup>2</sup>
	TW NCF LT PP 60 1050 Black	L1x1050-PP60B		PP	1050 g/m <sup>2</sup>	31 Oz/Yd <sup>2</sup>

PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	DIMENSIONS <sup>1</sup>	DIMENSIONS <sup>2</sup>	COLOR	FEATURES	PROCESS
Twintex® Fabrics	TW TF PP 60 745 Black Twill	WRt0750-PP60B	150 or 300	4.9 or 9.8	Salt & Pepper	Twill pattern	Lamination, vacuum bag molding
	TW TF PP 60 745 Natural Twill	WRt0750-PP60W	150 or 300	4.9 or 9.8	Natural	Twill pattern	
	TW TF PP 60 1485 Black Twill	WRt1490-PP60B	100 or 150 or 300	3.3 or 4.9 or 9.8	Salt & Pepper	Twill pattern	
	TW TF PP 60 1485 Natural Twill	WRt1490-PP60W	150 or 300	4.9 or 9.8	Natural	Twill pattern	
	TW TF PP 60 980 Black Twill	WRt0980-PP60B	150 or 300	4.9 or 9.8	Salt & Pepper	Twill pattern	
	TW TF PP 60 980 Natural Twill	WRt0980-PP60W	150 or 300	4.9 or 9.8	Natural	Twill pattern	
	TW TF PP 60 935 Black Plain 4/1	WRx0940-PP60B	100	3.3	Salt & Pepper	Plain pattern 80-20	
	TW NCF LT PP 60 1050 Black	L1x1050-PP60B	122	4.0	Salt & Pepper	Multiaxial 80-20	

1. Fabrics: Width [cm] Plates: Length\* Width [cm x cm] Pellets: Length [mm]

2. Fabrics: Width [ft] Plates: Length\* Width [ft x ft] Pellets: Length [in]

\*Above products are the most common. Other variations are available upon request.

## Twintex® Reinforcements

PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	GLASS CONTENT (% BY WEIGHT)	TP RESIN	NOMINAL WEIGHT	NOMINAL WEIGHT
Twintex® Plates	TW TF PP 60 745 Black Twill	P-WRt0750-PP60B	60%	PP	745 g/m <sup>2</sup>	22 Oz/Yd <sup>2</sup>
	TW TF PP 60 745 Natural Twill	P-WRt0750-PP60W	60%	PP	745 g/m <sup>2</sup>	22 Oz/Yd <sup>2</sup>
	TW TF PP 60 1485 Black Twill	P-WRt1490-PP60B	60%	PP	1485 g/m <sup>2</sup>	44 Oz/Yd <sup>2</sup>
	TW TF PP 60 1485 Natural Twill	P-WRt1490-PP60W	60%	PP	1485 g/m <sup>2</sup>	44 Oz/Yd <sup>2</sup>
	TW TF PP 60 935 Black Plain 4/1	P-WRx0940-PP60B	60%	PP	935 g/m <sup>2</sup>	27,5 Oz/Yd <sup>2</sup>
	TW TF PP 60 1870 Black Plain 4/1	P-WRx01870-PP60B	60%	PP	1870 g/m <sup>2</sup>	55 Oz/Yd <sup>2</sup>
	TW TS PP60 888 AF200	P-WRt0890-PP60W	60%	PP	888 g/m <sup>2</sup>	26,2 Oz/Yd <sup>2</sup>
	TW TS PP60 1636 AF250	P-WRt1640-PP60W	60%	PP	1636 g/m <sup>2</sup>	48,3 Oz/Yd <sup>2</sup>

PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	DIMENSIONS	DIMENSIONS	COLOR	FEATURES	PROCESS
Twintex® Plates	TW TF PP 60 745 Black Twill	P-WRt0750-PP60B	200*150	6.6*4.9	Salt & Pepper	Twill pattern	Lamination, thermocompression, hybrid thermoplastic
	TW TF PP 60 745 Natural Twill	P-WRt0750-PP60W	200*150	6.6*4.9	Natural	Twill pattern	
	TW TF PP 60 1485 Black Twill	P-WRt1490-PP60B	200*150	6.6*4.9	Salt & Pepper	Twill pattern	
	TW TF PP 60 1485 Natural Twill	P-WRt1490-PP60W	200*150	6.6*4.9	Natural	Twill pattern	
	TW TF PP 60 935 Black Plain 4/1	P-WRx0940-PP60B	200*150	6.6*4.9	Salt & Pepper	Plain pattern 80-20	
	TW TF PP 60 1870 Black Plain 4/1	P-WRx01870-PP60B	200*150	6.6*4.9	Salt & Pepper	Plain pattern 80-20	
	TW TS PP60 888 AF200	P-WRt0890-PP60W	300*150	9.8*4.9	White Top Layer Film	Twill pattern	
	TW TS PP60 1636 AF250	P-WRt1640-PP60W	300*150	9.8*4.9	White Top Layer Film	Twill pattern	

\*Above products are the most common. Other variations are available upon request.

## Twintex® Reinforcements

PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	GLASS CONTENT (% BY WEIGHT)	TP RESIN	NOMINAL WEIGHT	NOMINAL WEIGHT
Twintex® Pellets	TW TP PP 75 TP200 I3	TW TP PP 75 TP200 I3	75%	PP	N/R	N/R
	TW TP PP 75 TP200 25	TW TP PP 75 TP200 25	75%	PP	N/R	N/R
	TW TP PP 75 TP301 I3	TW TP PP 75 TP301 I3	75%	PP	N/R	N/R
	TW TP PP 75 TP301 25	TW TP PP 75 TP301 25	75%	PP	N/R	N/R
	TW TP PP 75 TP303 I3	TW TP PP 75 TP303 I3	75%	PP	N/R	N/R
	TW TP PP 75 TP303 25	TW TP PP 75 TP303 25	75%	PP	N/R	N/R

PRODUCT TYPE	GLOBAL PRODUCT NAME	LOCAL PRODUCT NAME	DIMENSIONS	DIMENSIONS	COLOR	FEATURES	PROCESS
Twintex® Pellets	TW TP PP 75 TP200 I3	TW TP PP 75 TP200 I3	I3	0.5	Black	no LTHA	Injection molding, extrusion, compression molding, hybrid thermoplastic
	TW TP PP 75 TP200 25	TW TP PP 75 TP200 25	25	I	Black	no LTHA	
	TW TP PP 75 TP301 I3	TW TP PP 75 TP301 I3	I3	0.5	Black	LTHA 1000h 150°C (302°F)	
	TW TP PP 75 TP301 25	TW TP PP 75 TP301 25	25	I	Black	LTHA 1000h 150°C (302°F)	
	TW TP PP 75 TP303 I3	TW TP PP 75 TP303 I3	I3	0.5	Black	LTHA 500h 150°C (302°F)	
	TW TP PP 75 TP303 25	TW TP PP 75 TP303 25	25	I	Black	LTHA 500h 150°C (302°F)	