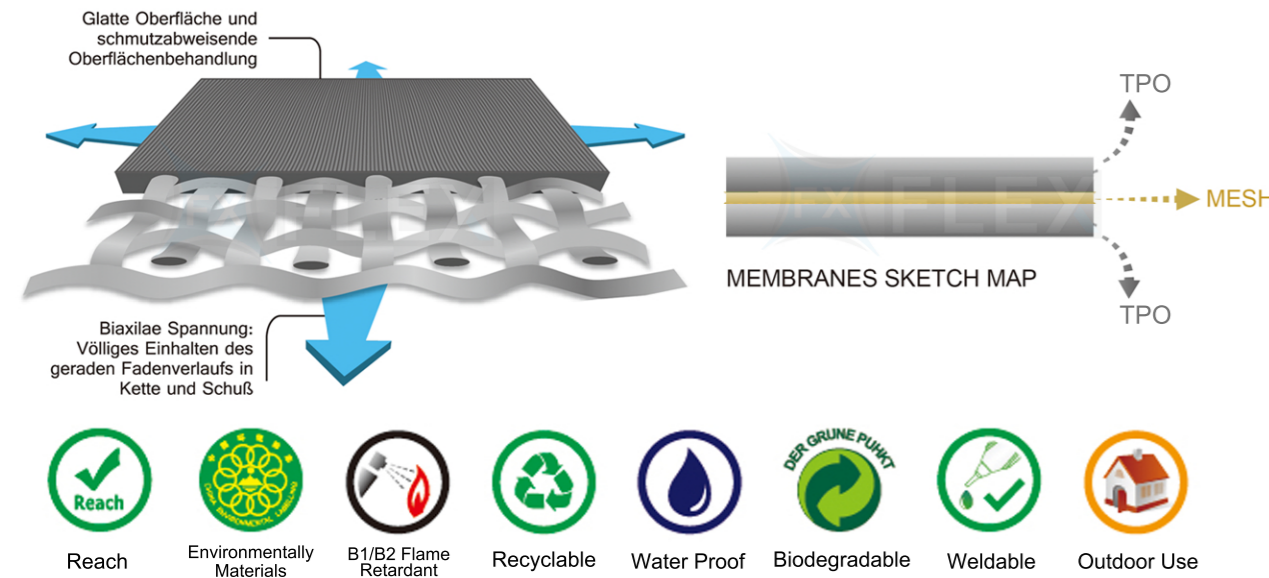


PVC Free Material (TPO)

### What is TPO?

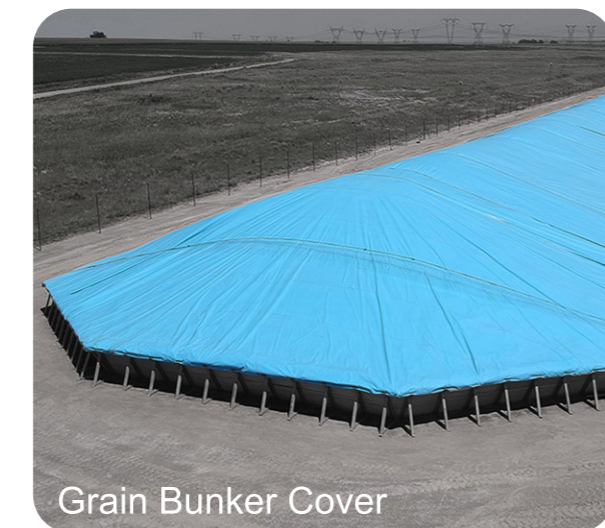
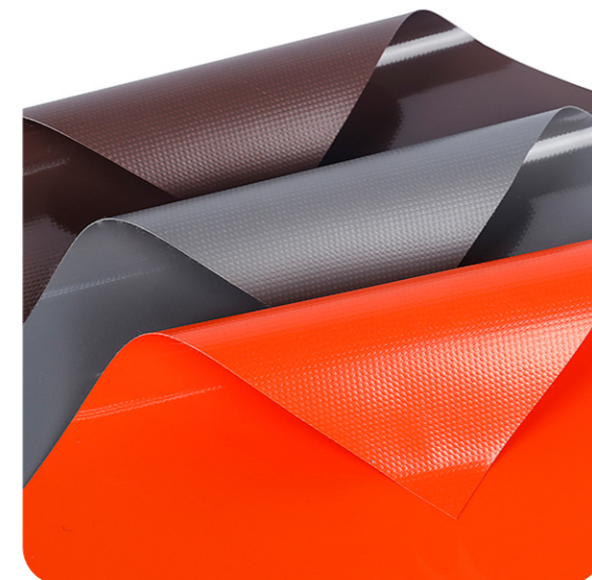
TPO is a new food-grade environmentally friendly formula. It is a polypropylene-based fabric with a special thermoplastic polyolefin (TPO) coating formula. This TPO was invented in the United States in the 1990s and is the result of many years of research and development. Introduced to China in 2020, FLX factory became the first batch of users. TPO fabrics have obvious advantages over existing PVC fabrics. It can be recycled many times to make car fenders, shelves, car mats, etc., and its performance will not decrease; TPO fabric can be 100% degraded within 10 years when buried in the soil, and its environmental performance far exceeds that of PVC fabric.



- 100% Polypropylene-based fabric coated with TPO on both sides
- 100% recyclable, non toxic to humans and no dioxin is emitted when burned
- Approx. 30% lighter than PVC at the same thickness
- Available from 260 gsm to 800 gsm
- Excellent physical strength-comparable to PVC, including Adhesion strength
- UV-resistant (optional)
- Acrylic lacquer & PVDF treated (optional)
- Fire-retardant (optional)
  - NFPA 701 (large & small scale)
  - CPAI 84 sec-6 vertical
  - EN13501-1 Class B
  - DIN4102
- 126"(3.2m) maximum width for rolls
- Available in TPO roll form

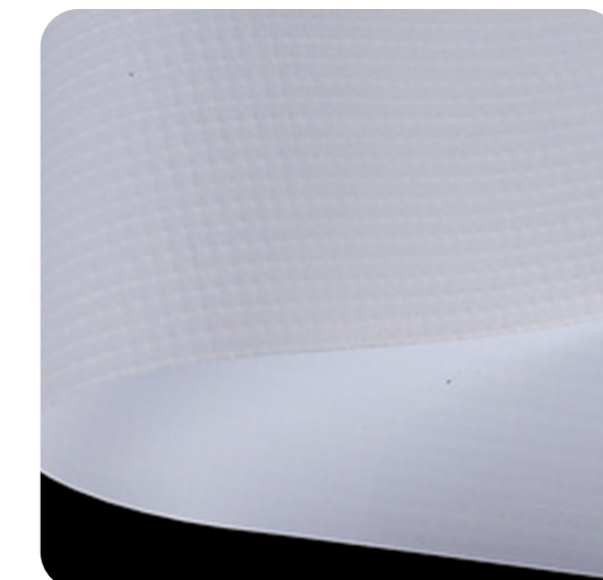
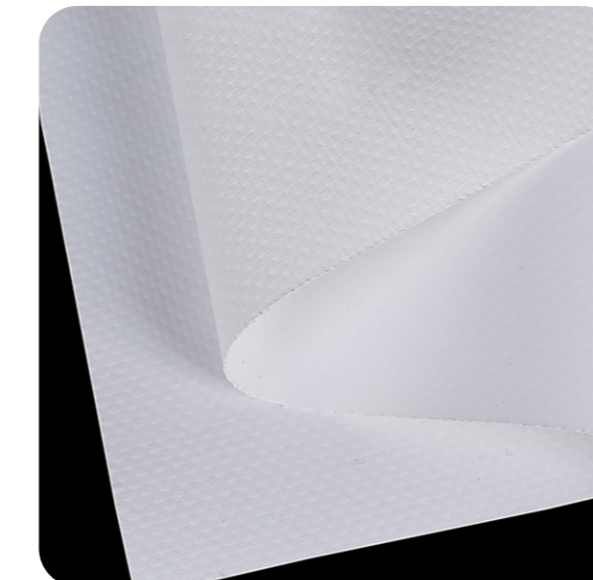
### TPO Tarpaulin Fabric (PVC Free)

	FLFX10001	FLFX10002	FLFX10003	FLFX10004	Testing Method
<b>Technical properties</b>					
Total Weight	400 g/m <sup>2</sup> 11.8 OZ/YD <sup>2</sup>	400 g/m <sup>2</sup> 11.8 OZ/YD <sup>2</sup>	510 g/m <sup>2</sup> 15 OZ/YD <sup>2</sup>	610 g/m <sup>2</sup> 18 OZ/YD <sup>2</sup>	DIN EN ISO 2286-2 BS 3424 Method 5A
Base Fabric	100%PES 500Dtex 9×9/inch	100%PES 840Dtex 9×9/inch	100%PES 1000Dtex 18×13/inch	100%PES 1000Dtex 18×13/inch	DIN EN ISO 2060
Tensile Strength (warp/weft)	800/650 N/5cm 180/150 LBS/2inch	1280/1040 N/5cm 290/230 LBS/2inch	2300/1600 N/5cm 520/360 LBS/2inch	2300/1600 N/5cm 520/360 LBS/2inch	DIN 53 354 BS 3424 Method FS 5100
Tear Strength (warp/weft)	260/210 N 58/47 LBS	410/340 N 92/76 LBS	500/350 N 112/78 LBS	500/350 N 112/78 LBS	DIN 53 363 BS 3424 Method FS 5134
Adhesion	60 N/5cm 13 LBS/2inch	60 N/5cm 13 LBS/2inch	60 N/5cm 13 LBS/2inch	60 N/5cm 13 LBS/2inch	DIN 53 357 FS 5970 BS 3424 Method 9B
Width(Optional)	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	-
Temperature Resistance	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	DIN EN 1876-2 BS 3424 Method 10 FS 5874
Flame Retardancy (Optional)	B1, B2	B1, B2	B1, B2	B1, B2	EN 13501 NFPA-701 ASTM E84
Lacquering (Optional)	Acrylic & PVDF	Acrylic & PVDF	Acrylic & PVDF	Acrylic & PVDF	
Application	Tarpaulin	Tarpaulin	Tarpaulin	Tarpaulin	



### TPO Flex Banner (PVC Free)

	FLFX10005	FLFX10006	FLFX10007	FLFX10008	Testing Method
<b>Technical properties</b>					
Total Weight	300 g/m <sup>2</sup> 8.8 OZ/YD <sup>2</sup>	350 g/m <sup>2</sup> 10.3 OZ/YD <sup>2</sup>	350 g/m <sup>2</sup> 10.3 OZ/YD <sup>2</sup>	400 g/m <sup>2</sup> 11.8 OZ/YD <sup>2</sup>	DIN EN ISO 2286-2 BS 3424 Method 5A
Base Fabric	100%PES 500Dtex 9×9/inch	100%PES 840Dtex 9×9/inch	100%PES 1000Dtex 18×13/inch	100%PES 1000Dtex 18×13/inch	DIN EN ISO 2060
Tensile Strength (warp/weft)	800/650 N/5cm 180/150 LBS/2inch	1280/1040 N/5cm 290/230 LBS/2inch	2300/1600 N/5cm 520/360 LBS/2inch	2300/1600 N/5cm 520/360 LBS/2inch	DIN 53 354 BS 3424 Method FS 5100
Tear Strength (warp/weft)	260/210 N 58/47 LBS	410/340 N 92/76 LBS	500/350 N 112/78 LBS	500/350 N 112/78 LBS	DIN 53 363 BS 3424 Method FS 5134
Adhesion	60 N/5cm 13 LBS/2inch	60 N/5cm 13 LBS/2inch	60 N/5cm 13 LBS/2inch	60 N/5cm 13 LBS/2inch	DIN 53 357 FS 5970 BS 3424 Method 9B
Width(Optional)	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	1.6/ 2.5/ 2.8/ 3/ 3.2 /5.1m	-
Temperature Resistance	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	DIN EN 1876-2 BS 3424 Method 10 FS 5874
Flame Retardancy (Optional)	B1, B2	B1, B2	B1, B2	B1, B2	EN 13501 NFPA-701 ASTM E84
Lacquering (Optional)	Acrylic & PVDF	Acrylic & PVDF	Acrylic & PVDF	Acrylic & PVDF	
Application	Banner	Banner	Banner	Banner	



fxfabric.com  
fxtarpaulin.com

