



TPU Laminate FILM

TECHNICAL DATA SHEET

ITEM NO.: XP600

SIZE: 60''×50M

Product Description

- For Laminating Printing film
- 3.82mil, transparent, laminate film

Product Features

- ★ High clear TPU film with ceramic coating
- ★ Pressure-activated adhesive for easy sliding, tacking, snap-up and repositioning
- ★ Flexible; conformable with less heat, and excellent hiding power
- ★ Superior conformability with heat for applications on recesses and deep channels
- ★ Removable with heat from most surfaces within the Warranty Period
- ★ Expected Performance Life of 10 years (unwarranted period for man-made damage)

FILM MATERIAL

This film is a polycaprolactone based, aliphatic TPU(thermal polyurethane) film. It is a low gel, non-yellowing, UV-resistant film used in a wide range of outdoor exposed vehicle protection applications. The Elastic TPU design not only delivers a stunning appearance but also offers four times the durability and protection against rock chips, deep scratches, and chemical damage compared to the original painted surface. Preserve the pristine condition of your original paint for an extended period!

PHYSICAL PROPERTIES

Properties	Results	
Material	TPU	
Film Color	Transparent	
Thickness(TPU base film)	2.36mil, 60um	
Thickness(coating)	8um	
Thickness(adhesive)	26um	
Thickness(with everything)	3.82mil, 97um±10um	
Elongation at break	≥254%	
Tensile Strength	>12.5Mpa	
Shrinkage	<0.1%	
Adhesive Color	transparent	
Liner	One side glossy and one side matte PET liner	
Liner thickness	50um	
Properties	Test Results	Testing Conditions
Gloss	> 95GU	60 Degree
Hydrophobic	Good	Spray water 60min
Self-Healing Type	Heat Self Healing	10 times with steel brush, self healing at 50-70°C for 1 min
Stain resistance	No Detrimental	Immerse for 30min with corrosive liquid. check after 24hr

Application Characteristics

Characteristic	Value
Recommended Types of Graphics and End Uses	<ul style="list-style-type: none">• Wraps for vehicles, straight trucks, semi-trucks and semi-trailers; emblems or striping• Watercraft graphics (above the static water line only)• Non-vertical and horizontal vehicle wraps• Bus and transit graphics

Aging Test

UV TESTING-No Detrimental Effect	1800 cycles 60 minutes test / 0.55w/m2/nm / 340nm
Natural Weathering-No Detrimental Effect	3yr natural China Weather
Humidity With Heat-No Detrimental Effect	200hr / 0-60°C / humidity:50%-90%RH
Heat Aging-No Detrimental Effect	3months/70°C

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