

## 3M Controltac™ 180 Graphic Film

Category : Polymer , Film

**Material Notes:**

2-mil white, vinyl film with a luster finish; Excellent hiding power; Pressure-activated adhesive for easy sliding, tacking, snap up and repositioning; Conforms to flat surfaces, with and without rivets, simple curves, compound curves and corrugations; Film series 180C with Comply adhesive also have air release channels for fast and easy, bubble-free graphic installations; Film 180Cv2 (white only) features non-visible air release channels Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Controltac-180-Graphic-Film.php](http://www.lookpolymers.com/polymer_3M-Controltac-180-Graphic-Film.php)

Physical Properties	Metric	English	Comments
Thickness	50.8 microns	2.00 mil	without adhesive
	76.2 - 102 microns	3.00 - 4.00 mil	with adhesive

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	17.2 MPa	2490 psi	
Peel Strength	0.526 - 0.701 kN/m	3.00 - 4.00 pli	Adhesion to Acrylic enamel
	0.526 - 0.877 kN/m	3.00 - 5.00 pli	Adhesion to Fruehauf pre-painted panels
	0.701 - 0.877 kN/m	4.00 - 5.00 pli	Adhesion to ABS
	0.701 - 0.877 kN/m	4.00 - 5.00 pli	Adhesion to Chrome
	0.877 - 1.05 kN/m	5.00 - 6.00 pli	Adhesion to Aluminum, etched
	1.23 - 1.40 kN/m	7.00 - 8.00 pli	Adhesion to Aluminum, anodized

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	32.0 °C	89.6 °F	Compound curves
	38.0 °C	100 °F	Flat surfaces without rivets
	38.0 °C	100 °F	Curved or corrugated surfaces with rivets
Minimum Service Temperature, Air	4.00 °C	39.2 °F	Flat surfaces without rivets
	10.0 °C	50.0 °F	Curved or corrugated surfaces with rivets
	16.0 °C	60.8 °F	Compound curves

## **Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**