

## 3M Controltac™ IJ180-10 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; Flexible; conforms to compound curves, corrugations and rivets – Stretch selected finished graphic constructions up to 130% (ie a 10in film piece can stretch to 13 inches) without primer or relief cuts and maintain lift resistance; see details and exceptions in Section 8; Removable with heat and/or chemicals Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Controltac-IJ180-10-Graphic-Film.php](http://www.lookpolymers.com/polymer_3M-Controltac-IJ180-10-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 and/or watercraft
	38.0 °C	100 °F	Flat without rivets
	38.0 °C	100 °F	Curves or corrugations with rivets
Minimum Service Temperature, Air	4.00 °C	39.2 °F	Flat without rivets
	10.0 °C	50.0 °F	Curves or corrugations with rivets
	16.0 °C	60.8 °F	Compound curves and/or watercraft

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