

**PRODUCT DATA SHEET**

Issue September 3, 2018

<b>REvolution 4000 Series</b>	
<b>Product Description</b>	REvolution 4000 series films are high quality, European manufactured, self adhesive polymeric PVC films suitable for colour intensive brilliant prints where medium to long term graphics are required. REvolution 4000 series films are suited to most digital printing platforms where end use criteria demands quality and ultimate performance.
<b>Suggested Uses</b>	General signage for internal & external applications Wall Graphics High Quality graphics Point of sale applications Building graphics REV4108 Platinum may be suited to medium curved vehicle graphic applications
<b>Resistance</b>	4 hours in Propanol = no change when unprinted Resistant to most fuels and petroleum products when unprinted Suitable for intermittent or occasional water contact such as rain or water spray however long term complete water submersion is not recommended Temperature resistance / 80 deg °C for 24 hours = no change Humidity resistance / 38 deg °C @ 98% humidity for 24 hours = no change
<b>Properties</b>	Dimensional Stability = MD: <-3% :FTM 14 Meets the requirement of class B1 for flame-resistant building materials according to DIN 4102-1 Durability estimate = unprinted up to 5 years Durability is given as a good faith estimate based on laboratory QUV tests and past application feedback. Durability depends on so many unknown processing and end use application parameters that no concise timeframe can be provided. Major influencing factors include processing techniques, surface preparation, vertical or horizontal exposure, aspect, exposure to UV, geography & environment. Note, there is no warranty associated with this estimate.
<b>Application</b>	For optimum results environmental conditions best suited to applying REV4000 films - above 10 deg °C - below 32 deg °C - 55% relative humidity.
<b>Storage</b>	All REvolution 4000 series films should be kept in clean dry conditions at all times. Always keep films in original packaging away from direct sunlight Bring film to print room at least 24 hours prior to printing to acclimatize Films should be stored between 50% – 60% relative humidity Films should not be subject to temperature <5 deg °C or >36 deg °C Best used within 2 years from date of manufacture

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REvolution 4000 Series			Product Selection
Product Code	Description	Product Details	Roll Sizes
REV4101	Gloss White film Clear permanent adhesive PE coated liner	<ul style="list-style-type: none"> <li>80mic gloss white polymeric PVC film</li> <li>140gsm PE coated liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 100mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m
REV4103	Gloss White film Grey blockout permanent adhesive PE coated liner	<ul style="list-style-type: none"> <li>80mic gloss white polymeric PVC film</li> <li>140gsm PE coated liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 100mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m
REV4104	Gloss White film Grey blockout removable adhesive A/F liner	<ul style="list-style-type: none"> <li>80mic gloss white polymeric PVC film</li> <li>140gsm PE coated liner air flow liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 100mic</li> <li>Adhesion to steel 6N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m
REV4105GC	Gloss Clear film Clear permanent adhesive PE coated liner	<ul style="list-style-type: none"> <li>80mic gloss clear polymeric PVC film</li> <li>140gsm PE coated liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 100mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m
REV4105MC	Matt Clear film Clear permanent adhesive PE coated liner	<ul style="list-style-type: none"> <li>80mic matt clear polymeric PVC film</li> <li>140gsm PE coated liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 100mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m
REV4106 SUPERTAC	Matt White film Grey blockout permanent adhesive A/F Liner	<ul style="list-style-type: none"> <li>80mic matt white polymeric PVC film</li> <li>140gsm PE coated air flow liner</li> <li>Acrylic adhesive - 20g/m2</li> <li>Total thickness = 100mic</li> <li>Adhesion to steel -20.7N/25mm (24hr)</li> </ul>	1370mm x 50m
REV4107	Gloss White film Grey blockout permanent adhesive A/F liner	<ul style="list-style-type: none"> <li>80mic gloss white polymeric PVC film</li> <li>140gsm PE coated air flow liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 100mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1520mm x 50m
REV4108 PLATINUM	Gloss White film Grey blockout removable adhesive A/F liner	<ul style="list-style-type: none"> <li>50mic gloss white polymeric PVC film</li> <li>140gsm PE coated air flow liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 70mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m
REV4108LAM PLATINUM	Gloss Clear laminating film Clear removable adhesive	<ul style="list-style-type: none"> <li>50mic gloss clear polymeric PVC film</li> <li>140gsm PE coated liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness = 70mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m
REV4113	Frosted Translucent Window film Clear permanent adhesive	<ul style="list-style-type: none"> <li>80mic polymeric frosted PVC film</li> <li>140gsm PE coated liner</li> <li>Acrylic Adhesive - 20g/m2</li> <li>Total thickness - 100mic</li> <li>Adhesion to steel - 11N/25mm (24hr)</li> </ul>	1370mm x 50m 1600mm x 50m

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REVolution 4000 Series		Key points of interest
<b>Adhesive Properties</b>	<p>REVolution 4000 series self adhesive PVC products carry solvent free water based acrylic adhesives to ensure compliance with REACH &amp; European RoHS regulations. Water based pH neutral acrylic adhesives are used for the construction of these films. For optimum results it is best to avoid or minimize the use of water when applying REV4000 Clear film products to clear surfaces. If water is used for installation the film may appear milky. This will improve during the next 24 hour drying period subject to atmospheric conditions of 22 – 30 deg°C &amp; 55% RH. Adhesion to Steel after 10 minutes = 8N/25mm : AFERA 5001</p> <p>REV4109 Window films are waterless application films &amp; should be used without water during application.</p>	
<b>Vehicle Applications</b>	<p>REV4000 series PVC films will adhere to vehicle painted surfaces however please consider the end use criteria to ensure best product selection. For vehicle graphics application self adhesive PVC's with removable adhesives are recommended.</p> <p>REV4108 PLATINUM &amp; REV4108LAM may be used for vehicle graphics applications but are not recommended for full vehicle wraps. The combined film weight of REV4108 &amp; REV4108LAM will be 100mic making application to flat side vehicles or modest curves easier.</p> <p>REV4000 series products are not designed for full vehicle wraps or similar applications.</p> <p>To achieve optimum adhesion to painted surfaces we recommend the surface tension to be above 34 dynes/cm.</p>	
<b>Print Platforms</b>	<p>All REV4000 series films are designed to be user friendly and have therefore been engineered to be compatible with most print platforms including solvent, eco-solvent, latex &amp; UV. Ink formulations vary between manufacturers and can vary from machine to machine. It is therefore strongly recommended that thorough print tests are conducted with your chosen print film prior to any production is conducted.</p>	
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