

Coroplast Test Laboratory BE/BEQ

03/09/07  
BE/Fr

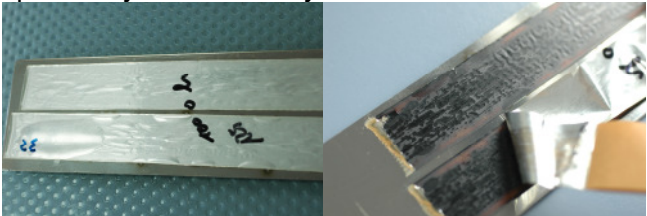
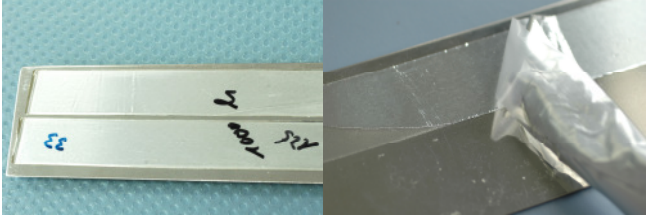
**Customer:** Lenzing Plastics

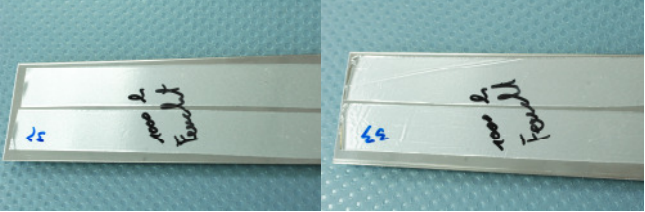
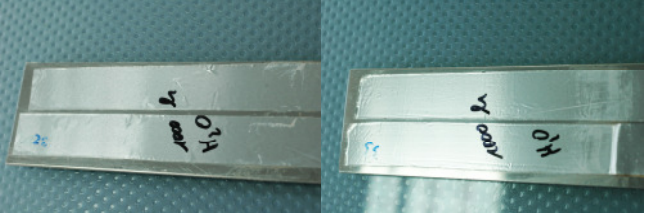
**Material:** Coroplast 1232X (UV-PET/Alu/PVC/Alu with AWX-adhesive)  
Coroplast 1233X (UV-PET/Alu with AWX-adhesive)

**Test samples:** Samples from standard production

**Test period:** July / August 2007

**Test results:**

Property	Test method / Test conditions	Test results
<b>1 Accelerated ageing test – temperature</b>	<p>Samples of 1232X and 1233X on steel panels were aged for 1000h/125 °C.</p> <p>Adhesion was tested acc. to DIN EN 1939</p>	<p>1232X: No adhesion failure or edge lifting was observed but the laminate showed some bubbles and partly the aluminium layer separated from the base material. During adhesion test the laminate split easily. The PVC layer was burned.</p>  <p>1233X: No adhesion failure or edge lifting was observed. The aluminium backing does not show any cracks or flaking or any aspects of corrosion.</p>  <p>Residual adhesion of 90 % of the initial value. Adhesion to steel was higher than the stability of the laminate that split during adhesion test.</p>
<b>2 Accelerated ageing test – resistance to cold</b>	<p>Samples of 1232X and 1233X on steel panels were aged for 48h/-40 °C.</p> <p>Adhesion was tested acc. to DIN EN 1939</p>	<p>No adhesion failure or edge lifting was observed. The aluminium backing does not show any cracks or flaking or any aspects of corrosion.</p> <p>Residual adhesion of &gt; 90 % of the initial value. Adhesion to steel was higher than the stability of the laminate that split during adhesion test.</p>

<p><b>3 Accelerated ageing test – humid climate</b></p>	<p>Samples of 1232X and 1233X on steel panels were aged for 1000h/80 °C/95%r.h.</p> <p>Adhesion was tested acc. to DIN EN 1939</p>	<p>No adhesion failure or edge lifting was observed. The aluminium backing does not show any cracks or flaking or any aspects of corrosion.</p>  <p>Residual adhesion of &gt; 90 % of the initial value. Adhesion to steel was higher than the stability of the laminate that split during adhesion test.</p>
<p><b>4 Accelerated ageing test – water resistance</b></p>	<p>Samples of 1232X and 1233X on steel panels were stored for 1000h at 23 °C under water.</p> <p>Adhesion was tested acc. to DIN EN 1939</p>	<p>No adhesion failure or edge lifting was observed. The aluminium backing does not show any cracks or flaking or any aspects of corrosion.</p>  <p>Residual adhesion of &gt; 90 % of the initial value. Adhesion to steel was higher than the stability of the laminate that split during adhesion test.</p>
<p><b>5 Outdoor exposure</b></p>	<p>Outdoor weathering in Wuppertal, Germany. Samples of 1232X on steel panels with orientation to south</p>	<p>After 18 months no adhesion failure or edge lifting was observed. The aluminium backing does not show any cracks or flaking or any aspects of corrosion.</p> 