

IAR Library: 06.60.00 Ye 2011  
**Plastic Fabrications**  
**CSI #06.60.00**  
**2011**

<b>PRODUCT INFORMATION</b>	<b>TYPE OF PRODUCT</b>	Plastic panels
	<b>COMPANY NAME</b>	Yemm&Hart
	<b>PRODUCT/COLLECTION NAME</b>	Origins
	<b>DESCRIPTION</b>	Decorative Plastic Panel Surfacing Material
<b>MATERIAL FEEDSTOCK</b>	<b>MATERIAL CONTENT</b>	Recycled polyethylene plastic bottles with a wide array of color pattern 98% high density polyethylene, 1% low-density polyethylene, and 1% polypropylene
	<b>RECYCLED CONTENT %</b>	100% Post consumer recycled content.
	<b>RAPIDLY RENEWABLE CONTENT %</b>	n/a
	<b>HARMFUL ADDITIVES</b>	No additional additives
	<b>HARMFUL EMISSIONS</b>	n/a
	<b>EMISSION STRENGTH OVER TIME</b>	n/a
	<b>TREATMENTS</b>	Polyethylene can be decorated with ink or paint.
<b>MANUFACTURING</b>	<b>MANUFACTURING PROCESS</b>	The creation of Origins is an involved process. Plastic bottles must be collected, sorted by color and shredded into pieces about the size of oatmeal. The flakes must be washed in hot water to remove contaminants such as soap, milk and paper labels and then thoroughly dried. By isolating the individual colors during the feed stock preparation process, a wide variety of color pattern customization is possible. Individual colors of flakes are carefully blended into specific color formulas. A measured amount of the blend is spread into a mold, which is positioned in an oven and heated until the plastic becomes molten. Pressure is then applied and this causes the randomly distributed colors of flakes or pellets to move in fascinating ways, as they permanently bond together. Conversely, the processes of injection molding and extrusion are unable to match this technique because their process homogenizes the color of the molten plastic.
	<b>HARMFUL EMISSIONS</b>	Class 3 building material: products of combustion include carbon monoxide and carbon dioxide.
	<b>LOCATION OF MANUF. PLANT</b>	Madison County, Missouri
	<b>TESTS/CODES</b>	n/a
	<b>3<sup>RD</sup> PARTY CERTIFICATION</b>	n/a
<b>INSTALLATION</b>	<b>INSTALLATION PROCEDURE</b>	Origins is ideal for restroom and shower partitions, vanity and counter tops, work surfaces and table tops. Origins can be used as a plastic laminate or a solid surfacing material. 1/8" Origins, when used as a plastic laminate, must have the adhering surface abraded with 40 to 60 grit sand paper to allow adequate contact adhesive purchase. Less than 1/2" thickness require a substrate for horizontal surfaces. 1/2" requires 12" and 1" requires 24" o.c. support. Origins holds fasteners well, threaded inserts and through-bolts are preferred.
	<b>INSTALLATION ADHESIVES</b>	Yes, if applicable.
	<b>UNIT COST</b>	Varies with sizes, see online for specifics
	<b>LIFE CYCLE ANALYSIS</b>	Very durable product with end of life recycling.
	<b>EXTRACTION</b>	
<b>MISC. PROPERTIES</b>	<b>END OF SERVICE LIFE</b>	Recyclable
	<b>QUALITIES/PROPERTIES OF PRODUCT</b>	Very durable, very little maintenance is required.
	<b>MISC. COMMENTS</b>	Examples of installations, restroom partitions, furniture and specialty products made with these materials can be viewed in the material's Gallery section online. <a href="http://www.yemmhart.com">www.yemmhart.com</a> . Laminating is an option.
	<b>CONTRIBUTION TO LEED POINTS</b>	Materials and Resources Credit 4 Recycled content
<b>COMPANY PROFILE</b>	<b>GREEN PHILOSOPHY</b>	Our goal is to bring building materials with recycled content into the main stream. By making a recycled material look and feel desirable, the material takes a step forward, changing the use of recycled materials from a cause to a common place.
	<b>CONTACT</b>	Stephen Yemm at Yemm & Hart, LTD 1417 Madison 308 Marquand, MO 63655-9153
<b>MAINTENANCE</b>	<b>AFTER INSTALLATION</b>	Clean Origins with solution of warm water and non-abrasive ammoniated cleaner such as Ajax liquid or mild solvent for more persistent stains and adhesive residue. 15 year warranty against breakage, corrosion, and

delamination.