

PE Americas/PE International – List of PVC-Related Projects

Project Title/Client	Notes	Project Date	Links
PVC Life Cycle Study	Ordered by the European Commission's Enterprise Directorate-General, the study was conducted by a consortium led by PE Europe GmbH. The work's main aim is to provide an overview of the publicly available information on Life-Cycle Assessments (LCA) on PVC (polyvinyl chloride) and the main competing materials, for a variety of applications.	2004	http://www.pe-international.com/pe-international/company/downloads/
Research benign production of polymers	Life-Cycle-Inventory data set-up study conducted for German EPA (UBA). Determination of polymer synthesis technologies, which are used today and in the near future. Evaluation regarding Best Available Technology. Polymers considered: PE, PP, PS, PVC, ABS, PA. Cooperation with all relevant German polymer producers, e.g. BASF, Bayer, Solvay, EVC etc.	2000	
American Chemistry Council	Prepared Life Cycle Inventory data on PET, PVC, PLA and PS for the American Chemistry Council, 2006	2006	
PVC Recovery Options	By order of VINYL 2010 PE INTERNATIONAL conducted the study 'PVC Recovery Options, Concept for Environmental and Economic System Analysis'	2003	http://www.pe-international.com/pe-international/company/downloads/
LCA on Vinyloop (not published)	LCA study comparison between virgin PVC and R-PVC commissioned by Solvay	2004	
Vinyl Environmental Council	Life-Cycle-Inventory Information on Additives of Polyvinylchloride in Europe Commissioned by Vinyl Environmental Council,	2005	



<p>ERFMI (European Resilient Flooring Manufacturers' Institute). EcoDesign Tool for EPD- like environmental profile generator</p>	<p>Used LCA to model flooring manufacturing of 12 different flooring types, i.e. PVC, linoleum, rubber and synthetic. Using parameter variation the output of the tool is a predefined EPD-like report showing the environmental results in a consistent matter. These results could be used for national EPD schemes.</p>	<p>2006-2008</p>	
<p>WRAP – The Waste & Resources Action Programme</p>	<p>An End of Life investigation, using LCA to analyze PVC recovery. This study provides a good overview on various EoL options for PVC-rich material wastes.</p>	<p>2003-2004</p>	<p>Chapter 11 - http://www.wrap.org.uk/downloads/MatProdPVCRichWaste.14b575df.402.pdf</p>
<p>Biofoam “Bio-source based recyclable poly(ester-co-amide)s and poly(ester-co-urethane)s for industrial foam applications.”</p>	<p>EU, Quality-of-Life Programme within EC 5th framework.</p> <p>Development of sustainable foam products based upon renewable resources identification of biosources, development of monomer production technologies from these biosources, polymerization, foaming technology, product development, recyclability and biodegradability using LCA. Life cycle study of options.</p> <p>Partners: ERFMI and its member companies (Tarkett, Forbo, Nora systems, Amtico, Altro, Armstrong, Bonafloor, Fatra, Gerflor, Lentex, Polyfloor, Sathis,, Upofloor, Mondo)</p>	<p>1999</p>	<p>http://ec.europa.eu/research/agriculture/projects/qlrt_1999_01298_en.htm</p>
<p>Environmental Product Declarations (EPD) for construction products - Branch specific realization of a Type III labeling scheme.</p>	<p>This study, ordered by the German Federal Environmental Agency, summarizes the current discussion on the content, methodology, and procedure for quantitative LCA (e.g. Type III environmental product declarations).</p>	<p>2006</p>	<p>http://www.pe-international.com/pe-international/company/downloads/</p>



<p>EcoDesign Toolbox for modeling cables</p>	<p>This interactive report focuses on various cable/insulation configurations. While this toolbox was not explicitly designed to compare PVC and PVC alternatives, it already includes an array of these materials and can generate LCA results (cradle-to-gate) on various cables via parameter variation (technical definitions). The results automatically generate a report based on the interactive template parameter settings, which shows the LCA results immediately through tables and diagrams. These reports can be exported directly into PDF/Word format.</p>		<p>Live Demonstration</p>
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