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The world's first non-phosgene process for producing an aromatic polycarbonate (PC) using CO2 as a starting material has been succeeded in development and industrialization by Asahi Kasei Corporation, Japan. The new process is not only environmentally friendly, but also economically superior to the current processes.

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The Asahi Kasei Non-Phosgene Polycarbonate Process enables high-yield production of the two products, high-quality polycarbonate (PC) having excellent properties and high-purity monoethylene glycol (MEG), starting from ethylene oxide (EO), CO2 and bisphenol-A, without waste and wastewater.

[Shinsuke Fukuoka Non-Phosgene Polycarbonate from CO2](#)

Abstract. The conversion of biomass and carbon dioxide to plastics is one of the key solutions to reduce the greenhouse effect and alleviate the petroleum resource depletion. However, there is still a lack of bioderived polymers with high molecular weights and excellent performance and their corresponding green synthesis processes, which limits the potential of bioderived polymers to replace petroleum-based polymers.

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The world's first non-phosgene polycarbonate process from CO 2 has been developed and industrialized by Asahi Kasei Corporation (Japan). Hitherto, all polycarbonates (PCs) have been produced using CO as a raw material.

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Asahi Kasei Corp. has succeeded in the development of a new green process for producing an aromatic polycarbonate based on bisphenol-A (hereafter usually abbreviated as PC) without using phosgene and methylene chloride. The new PC production process is the world's first to use carbon dioxide (CO 2) as a starting material. Until Asahi Kasei's new process was revealed, all of the PC in the world has been produced using carbon monoxide (CO) made from coxes or lower hydrocarbons and oxygen as a ...

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The trial operation of the second phase of the Luxi Chemical Polycarbonate Project is progressing smoothly, and Xingyun Chemical has signed a 240,000 *ty* polycarbonate project. On December 28, 2018, Hainan Haasheng New Materials Technology Co., Ltd. started the 2x260,000 tons/year non-phosgene polycarbonate project (Phase I), adding another piece to the domestic polycarbonate construction boom.

[The Polycarbonate Industry Is Booming. The Non-phosgene ...](#)

Synthesis of polycarbonate from dimethyl carbonate and bisphenol(a through a non'phosgene process @article{Haba1999SynthesisOP, title={Synthesis of polycarbonate from dimethyl carbonate and bisphenol(a through a non'phosgene process)}, author={O. Haba and Isao Itakura and M. Ueda and S. Kuze}, journal={Journal of Polymer Science Part A}, year={1999}, volume={37}, pages={2087-2093} }

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Because it is difficult to prepare DPC directly, the new non-phosgene routes make it indirectly by using an intermediate dialkyl carbonate, usually dimethyl carbonate (DMC), as the source of carbonate functionality. The first process step is to react phenol with dimethyl carbonate to make phenyl methyl carbonate.

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