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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.

This paper focuses on the world's first non-phosgene process using CO₂ as starting material succeeded in development and industrialization by Asahi Kasei Corp. The

Asahi Kasei Process enables... A Novel Non-Phosgene Process for Polycarbonate Production from CO₂: Green and Sustainable Chemistry in Practice | SpringerLink
Polycarbonate precursor process employs carbon dioxide ...
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lycarbonate ... - DeepDyve

Non-Phosgene Polycarbonate From CO₂: Industrialization of Green Chemical Process (Chemical Engineering Methods and Technology: Environmental Remediation Technologies, Regulations and Safety) UK ed. Edition

Non-phosgene polycarbonate from CO₂-industrialization of green chemical process. [Shinsuke Fukuoka;] ... (CO) as a Starting Material -- ch. 6 General Aspect of Non-Phosgene Polycarbonate Process from CO₂ (Asahi Kasei Process) -- ch. 7 Monomer Production Technology from CO₂ ...

Synthesis of polycarbonate from dimethyl carbonate and ...

Main content area. A novel non-phosgene polycarbonate production process using by-product CO₂ as starting material

In this video, Asahi Kasei's Takashi Adachi, Muneaki Aminaka, Isaburo Fukawa, Shinsuke Fukuoka, Kazumi Hasegawa, Mamoru Kawamura, Shigenori Konno, Kazuhiko M...

Dimethyl carbonate - Wikipedia

Asahi Kasei Chemicals Establishes Licensing Business for ...

Asahi Kasei - Phosgene-Free Polycarbonate Process

A novel nonphosgene process for producing bisphenol-A polycarbonate (PC) was developed through a transesterification between bisphenol-A (BPA) and dimethyl carbonate (DMC) and a melt-polycondensation of the resulting bisphenol-A bismethylcarbonate (1).

The carbonyl group of polycarbonate is obtained from CO₂ rather than from phosgene as with the conventional process. Figure 2: Comparison between sources of carbonyl group for polycarbonate 1 Method of polymerization of bisphenol-A and phosgene in two phases of organic phase and aqueous phase.

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 ...

A phosgene-free route to PCs has been a long time coming, with a number of producers seeking to overcome the inherent problems related to the process. Not only are phosgene and the other raw material, methylene chloride, highly toxic, but the process generates large quantities of wastewater and PC with chlorine impuri-

ties.

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 (CO₂) as a starting mate

The world's first non-phosgene polycarbonate process from CO₂ 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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A Novel Non-Phosgene Process for Polycarbonate Production ...

Dimethyl carbonate (DMC) is an organic compound with the formula OC(OCH₃)₂. It is a colourless, flammable liquid. It is classified as a carbonate ester. This compound

has found use as a methylating agent and more recently as a solvent that is exempt from the restrictions placed on most volatile organic compounds (VOCs) in the US. Dimethyl carbonate is often considered to be a green reagent.

Non Phosgene Polycarbonate From Co2

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A Novel Non-Phosgene Process for Polycarbonate Production ...

The new non-phosgene method has succeeded in eliminating harmful chemical substances and waste water, which were necessary in the conventional manufacturing process; in the new method, phosgene and methylene chloride are not used at all. The method also reduces carbon dioxide (CO₂) emissions produced during the manufacturing process.

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Polycarbonate precursor process employs carbon dioxide ...

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Asahi Kasei finds phosgene-free route to polycarbonates | ICIS

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