



Dow Corning® 40-001 Additive, the Ultimate Flame Retardant for Polycarbonate

Unique silicone-based additive that delivers high levels of flame retardance and transparency

Key Features

- Increased flame retardant performance of halogen-free compositions
- Thermally stable for easier feeding into high-temperature extrusion process
- Efficient at low loadings

Benefits

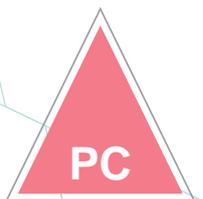
- Reaches V-0 rating at 1.5 mm for medium MFI PC
- Helps meet the UL 94 V-0 flammability standard for clear PC at 1 mm for low MFI PC grades and synergists
- Does not impact transparency
- Minimizes impact on mechanical properties
- Provides proven synergies with other flame retardant additives



Dow Corning® 40-001 Additive is a high-performance silicone used as a reactive agent for polycarbonate (PC) compounds.

It was developed to meet stringent flame retardant requirements for clear and opaque PC compounds used in applications such as consumer electronic components and automotive and architectural lighting.

The material provides superior flame retardance versus non-silicone-based additives, helps meet the UL 94 V-0 flammability standard for clear PC formulations at 1mm and presents minimal-to-no effect on a PC's optical or mechanical properties.



POLYCARBONATES

Target Applications

- Consumer electronics
- LED lighting
- Automotive
- Construction

Potential Uses

Polycarbonate compounds that must pass the UL 94 V-0 flammability test standard while delivering minimal impact on PC optical qualities, and maintaining excellent transparency, tensile strength and flexural modulus.



Many Solutions. One Source.

A longtime global leader in developing innovative silicon-based solutions, Dow Corning offers a variety of Plastics and Composites Solutions. Our additive and ready-to-use solutions help solve your needs in terms of processing, reinforcing materials and enhancing properties. From fluids to pellets, we help simplify the access to the uniqueness of silicone technology.

To learn more about Dow Corning's wide range of Plastics and Composites solutions, visit dowcorning.com/plascomp, email the Plastics team on plastics@dowcorning.com or go to dowcorning.com/ContactUs for a contact close to your location.

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Form No. 26-2122-01