

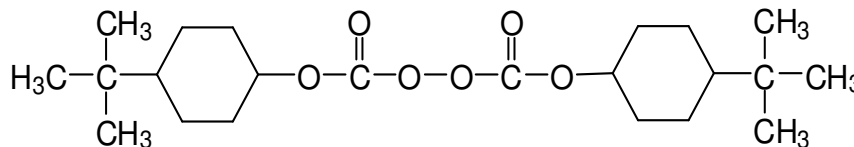
BCHPC

Bis(4-tert.butylcyclohexyl)-peroxydicarbonate

CAS#15520-11-3

Powder, technically pure

Structural Formula



Description

White, free-flowing powder, consisting of technically pure Di(4-tert.butylcyclohexyl)-peroxydicarbonate. This cycloaliphatic peroxydicarbonate is used as an initiator in the curing of unsaturated polyester resins.

Technical Data

| | |
|--|----------------------------|
| Appearance | White, free-flowing powder |
| Peroxide content | Ca. 95.0 % w/w |
| Active oxygen | Ca. 3.81 % w/w |
| De-sensitising agent | None |
| Bulk density | Ca. 0.50 kg/l |
| Melting point | Ca. 82°C |
| Critical temperature (SADT) | Ca. 45°C |
| “Kick-off” temperature | 50°C |
| Recommended storage temperature | below 20°C |
| Maximum transport temperature | 30°C |
| Maximum storage temperature | 20°C |
| Maintenance of activity as from date of delivery | 6 months |

This product is in compliance with the ElektroG (EU-Directives: RoHS 2002/96/EG, WEEE 2002/96/EG)

Half-life Data

10h/1 h/1 min (0.1 m / benzene): 41/57/90 °C

Application

POLYESTER CURING:

Curing agent for unsaturated polyester resins in combination with thermally more stable peroxides. Usage level: 1-2% as supplied. “Shelf-life” (gel time of resin + peroxide) some weeks at ambient temperature, depending on resin type, fillers, pigments.

“Pot-life” (gel time of resin + peroxide + accelerator) in combination with more stable peroxides (perester) several days, depending on temperature and dosage. Shelf life and pot life can be prolonged considerably by adding 0.1-0.3% Inhibitor BC-500.

CURING CHARACTERISTICS:

In the range of 50°C (“kick-off” temperature) curing rate is not very high unless there is a reaction exotherm (e.g. within a heat retaining mould). Good curing performance can only be achieved by addition of thermally more stable peroxides.

CURING PROCESSES:

Mainly pultrusion, hot press moulding, wet press moulding, CIPP (cured-in-place-pipes).

Packaging

The standard packaging of BCHPC is 20 kg (4 * 5 Kg PE Bag in cardboard box)

Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

Application and usage of our products based on our technical advice is out of our control and sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application.

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