Technical Data Sheet

Monofiber
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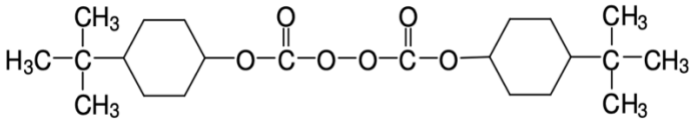
BCHPC

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)

Revision number: 1.0. Date: 01.07.14. Device M: TDS.