

NOROX[®] 600

Bis(4-tert.butylcyclohexyl)-peroxydicarbonate
CAS#15520-11-3
Powder, technically pure

Structural Formula

Description

White, free-flowing powder, consisting of technically pure Bis(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
Maintenance of activity	6 months

This product is in compliance with the ElektroG (EU-Directives: RoHS 2002/95/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 Norox[®]600 is 20 kg (4 * 5 Kg PE bag in cardboard box)

Disclaimer

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