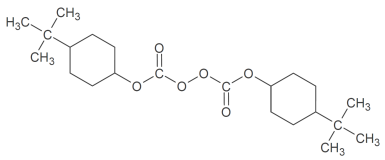
PEROXAN BCC

Peroxydicarbonate / Curing

Description

Di-(4-tert-butyl-cyclohexyl)-peroxydicarbonate
95%, Powder

PEROXAN BCC is used for the curing of highly filled methacrylic resins, typically in combination with other peroxides of different reactivity.



Molecular weight:	**398.5**
CAS No.:	**15520-11-3**

Technical data

Appearance:	**white powder**
Peroxide assay:	**min. 95%**
Active oxygen assay:	**min. 3.8%**
Bulk density at 10°C:	**400 kg/m³**

Solubility

in water: <25mg/kg

Storage

Maximum storage temperature (Ts max):	**15°C**
Storage stability as from date of delivery:	**3 months**

Hazardous reactions

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

Safety characteristics

SADT:	40°C
Emergency temperature:	35°C
Control temperature:	30°C

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken. The control temperature is the maximum temperature at which the product can be transported safely.

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Application

PEROXAN BCC is used for the curing of highly filled methacrylic resins, typically in combination with other curing agents of different reactivity, e.g. PEROXAN LP and PEROXAN PB.

PEROXAN BCC shows a high reactivity at elevated temperature, which is demonstrated by it low activation temperature, in combination with a relatively long pot life at ambient temperatures. PEROXAN BCC is mostly used in combination with a low reactive peroxide to ensure a good final cure. These peroxide combinations can successfully be used for those applications where a long gel time is required at room temperature in combination with a fast cure at elevated temperatures of 60°C to 140°C. Applications areas can be cure-in-place-pipe (CIPP), pultrusion, filament winding, manufacturing of artificial marble.

Depending on working conditions, the following dosage level is recommended:

PEROXAN BCC as such: 1,0 to 2,0 phr
PEROXAN BCC as kicker peroxide: 0,5 to 1,0 phr

Packaging

20kg cardboard box

Major decomposition products

4-tert-Butylcyclohexanol, Carbon dioxide

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BCC. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at **www.pergan.com** or through contacting Pergan directly.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

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