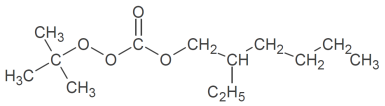
PEROXAN BEC

Peroxyester / Curing

Description

tert-Butyl peroxy 2-ethylhexyl carbonate
97%, Liquid

PEROXAN BEC is used for the curing of unsaturated polyester resins.



Molecular weight:	**246.3**
CAS No.:	**34443-12-4**

Technical data

Appearance:	**clear liquid**
Peroxide assay:	**min. 97%**
Active oxygen assay:	**min. 6.3%**
Density at 20°C:	**0.93 g/cm³**

Solubility

Insoluble in water, soluble in phthalates

Storage

Maximum storage temperature (Ts max):	**30°C**
Storage stability as from date of delivery:	**6 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

Flash point:	>SADT°C
SADT:	60°C

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

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Application

PEROXAN BEC is used for the curing of unsaturated polyester resins at high temperatures.

PEROXAN BEC is preferred for the curing of UP resin based hot press moulding formulations in the temperature range from 140° to 160°C.

PEROXAN BEC is often times used as "finishing" peroxide in combination with a high reactive peroxide like PEROXAN BCC or PEROXAN MI-60 KX as kicker in in formulations für pultrusion processes in the temperature range of 100° to 140°C.

PEROXAN BEC is recommended for the production of SMC/BMC parts. PEROXAN BEC gives a comparable amount of volatile decomposition products during the cure reaction as PEROXAN PB, tert-Butyl peroxybenzoate, however, without benzene.

Depending on application and working conditions, the following peroxide and when applicable cobalt accelerator dosage levels are recommended:

PEROXAN BEC: 1,0 to 2,0 phr

Packaging

25kg container

Major decomposition products

2-Ethylhexanol, Carbon dioxide, tert-Butanol

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BEC. 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.

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