

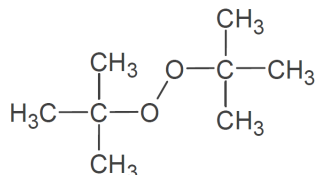
# PEROXAN DB

## Dialkyl peroxide / Crosslinking

### Description

Di-tert-butyl peroxide  
98%, Liquid

PEROXAN DB is used for the crosslinking of polyolefins as well as natural rubber and synthetic rubber.



Molecular weight: **146.2**  
CAS No.: **110-05-4**

### Technical data

Appearance: **clear liquid**  
Peroxide assay: **min. 98%**  
Active oxygen assay: **min. 10.72%**  
Density at 20°C: **0.8 g/cm<sup>3</sup>**

### Half life time

in an EPDM compound:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>120°C</b>	<b>154°C</b>	<b>176°C</b>

### Solubility

not determined

### 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: **80°C**

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

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### Application

Due to its high volatility, PEROXAN DB is mainly used for compounds that are crosslinked immediately after mixing.

PEROXAN DB is a thermally very stable peroxide. However, the high vapor pressure and the low flashpoint require special attention during handling and use. PEROXAN DB tends to build up static electricity; pumps must be ignition proof with grounded stainless steel tubing. Avoid any exposure to heat from naked fire, sunlight, steam pipes or any other source during storage.

Safe processing temperature (t2): 145°C

Typical crosslinking temperature (t90): 180°C

The safe processing temperature t2 is defined as the temperature, at which the scorch time is longer than 20 minutes. The typical crosslinking temperature t90 is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.

### Packaging

**20kg container**

**154kg drum**

### Major decomposition products

**Acetone, Methane, tert-Butanol**

### Safety and handling

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

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