

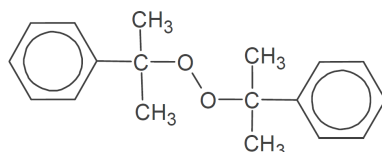
# PEROXAN DC

Dialkyl peroxide / Crosslinking

## Description

Dicumyl peroxide  
99%, Crystallin

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



Molecular weight: **270.4**  
CAS No.: **80-43-3**

## Technical data

Appearance: **white crystals**  
Peroxide assay: **min. 99%**  
Active oxygen assay: **min. 5.86%**  
Bulk density at 20°C: **620 kg/m<sup>3</sup>**

## Half life time

in an EPDM compound:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>112°C</b>	<b>138°C</b>	<b>162°C</b>

## Storage

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

## Hazardous reactions

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: **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

PEROXAN DC is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN DC combine good processing safety with a fair speed of cure.

Safe processing temperature (t<sub>2</sub>): 130°C

Typical crosslinking temperature (t<sub>90</sub>): 170°C

The safe processing temperature t<sub>2</sub> is defined as the temperature, at which the scorch time is longer than 20 minutes. The typical crosslinking temperature t<sub>90</sub> is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.

## Packaging

**20kg cardboard box**

## Major decomposition products

**2-Phenylpropanol-2, acetophenone, alpha-methylstyrene, Methane**

## Safety and handling

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