

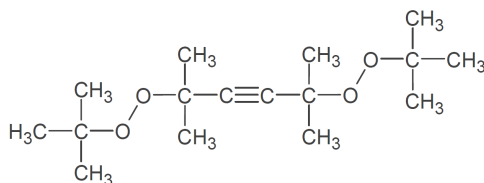
# PEROXAN HXY-85 W

Dialkyl peroxide / Crosslinking

## Description

2,5-Dimethyl-2,5-di(tert.-butylperoxy)hexyne-3  
85%, Solution in white oil

PEROXAN HXY-85 W is used for the crosslinking of polyolefins as well as natural rubber and synthetic rubber.



Molecular weight: **286.4**  
CAS No.: **1068-27-5**

## Technical data

Appearance: **clear liquid**  
Peroxide assay: **appx. 85%**  
Active oxygen assay: **appx. 9.5%**  
Density at 20°C: **0.88 g/cm<sup>3</sup>**

## Half life time

in an EPDM compound:

t <sub>1/2</sub>	10h	1h	0,1h
bei	<b>127°C</b>	<b>157°C</b>	<b>182°C</b>

## Storage

Maximum storage temperature (Ts max): **30°C**  
Minimum storage temperature (Ts min): **10°C** to prevent freezing  
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 HXY-85 W is recommended for the crosslinking of HDPE. Rubber compounds containing PEROXAN HXY-85 W have excellent scorch safety.

Safe processing temperature (t<sub>2</sub>): 145°C  
Typical crosslinking temperature (t<sub>90</sub>): 185°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.

Dosage level (HDPE): 0,5 to 1.2 phr

## Packaging

**25kg container**

## Major decomposition products

**2,5-Dimethyl-2,5-di(hydroxy)hexyne-3, 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 HXY-85 W. 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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