

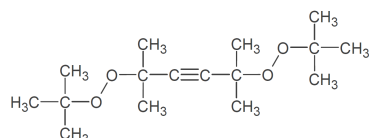
PEROXAN HXY-85 W

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/cm³

Half life time

in an EPDM compound:

t _{1/2}	10h	1h	0,1h
bei	127°C	157°C	182°C

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.

PEROXAN HXY-85 W

Dialkyl peroxide / Crosslinking

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 (t₂): 145°C

Typical crosslinking temperature (t₉₀): 185°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.

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 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.