

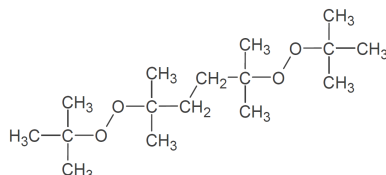
PEROXAN HX

Dialkyl peroxide / Crosslinking

Description

2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane
92%, Liquid

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



Molecular weight:

290

CAS No.:

78-63-7

Technical data

Appearance:

clear liquid

Peroxide assay:

min. 92%

Active oxygen assay:

min. 10.14%

Density at 20°C:

0.87 g/cm³

Half life time

in an EPDM compound:

| t _{1/2} | 10h | 1h | 0,1h |
|------------------|--------------|--------------|--------------|
| bei | 118°C | 147°C | 171°C |

Solubility

not determined

Storage

Maximum storage temperature (Ts max):

40°C

Minimum storage temperature (Ts min):

10°C to prevent freezing

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

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 HX is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN HX have excellent scorch safety.

Safe processing temperature (t₂): 135°C
Typical crosslinking temperature (t₉₀): 175°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

25kg container

Major decomposition products

Acetone, Ethane, Methane, tert Amyl-alcohol, tert-Butanol

Safety and handling

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