

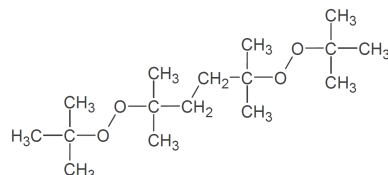
PEROXAN HX-45 P

Dialkyl peroxide / Crosslinking

Description

2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane
45%, Powder with chalk

PEROXAN HX-45 P is used for the crosslinking of natural rubber and synthetic rubber, as well as polyolefins.



Molecular weight:

290.4

CAS No.:

78-63-7

Technical data

Appearance:

white powder

Peroxide assay:

appx. 45%

Active oxygen assay:

appx. 4.96%

Bulk density at 20°C:

300 kg/m³

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

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:

91°C

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-45 P is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN HX-45 P 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

20kg cardboard box

Major decomposition products

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-45 P. 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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