

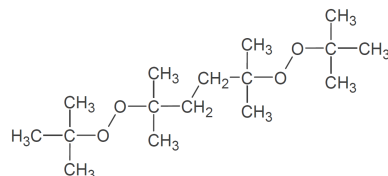
PEROXAN HX-50 PS

Dialkyl peroxide / Crosslinking

Description

2,5-Dimethyl-2,5-di-(tert-butylperoxy)-hexane
50%, Powder with silica

PEROXAN HX-50 PS 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. 50%

Active oxygen assay:

appx. 5.51%

Bulk density at 20°C:

410 kg/m³

Half life time

in an EPDM compound:

$t_{1/2}$	10h	1h	0,1h
bei	118°C	147°C	171°C

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

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-50 PS is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN HX-50 PS 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 cardboard box

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-50 PS. 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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