

## 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.

290.4 Molecular weight: CAS No.: 78-63-7

**Technical data** Appearance:

white powder Peroxide assay: аррх. 45% Active oxygen assay: аррх. 4.96% Bulk density at 20°C: 300 kg/m<sup>3</sup>

Half life time

in an EPDM compound:

t 1/2	10h	1h	0,1h	
bei	118°C	147°C	171°C	

Solubility not determined

40°C Storage Maximum storage temperature (Ts max): Minimum storage temperature (Ts min): 10°C

Storage stability as from date of delivery: 6 months

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from Hazardous reactions 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 91°C°C Flash point: SADT:

> The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

80°C





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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

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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