

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

SADT:

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

80°C

separation, is known to occur below this temperature.

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self

accelerating decomposition may occur.

Safety characteristics



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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

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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