

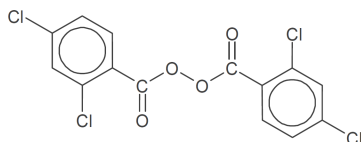
PEROXAN BD-Paste 50 SI

Diacyl peroxides / Crosslinking

Description

Di-(2,4-dichlorobenzoyl)-peroxide
50%, Paste in silicone oil

PEROXAN BD-Paste 50 SI is used for the crosslinking of silicone rubber.



Molecular weight:

380

CAS No.:

133-14-2

Technical data

Appearance:

white paste

Peroxide assay:

appx. 50%

Active oxygen assay:

appx. 2.11%

Density at 20°C:

1.2 g/cm³

Half life time

in an EPDM compound:

| $t_{1/2}$ | 10h | 1h | 0,1h |
|-----------|-------------|-------------|-------------|
| bei | 47°C | 65°C | 80°C |

Storage

Maximum storage temperature (Ts max):

30°C

Minimum storage temperature (Ts min):

5°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:

60°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 BD-Paste 50 SI is recommended for the crosslinking of silicone rubber.

With PEROXAN BD-Paste 50 SI silicone rubber compounds can be cured without external pressure (hot air and/or IR vulcanization).

PEROXAN BD-Paste 50 Si can be incorporated easily into a silicone rubber compound on a 2-roll mill.

Dosing (silicone rubber): 1,1 to 2,3 phr

Safe processing temperature (t2): 75°C

Typical crosslinking temperature (t90): 90°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 pail

Major decomposition products

1,3-Dichlorobenzene, 2,4-Dichlorobenzoic acid, Carbon dioxide, Traces of 2,2',4,4' tetrachlorobiphenyl

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BD-Paste 50 SI. 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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