

PEROXAN DC-Paste 50 SI/3

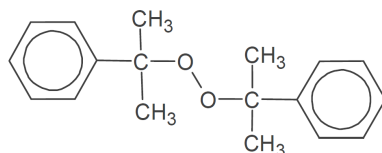
Dialkyl peroxide / Crosslinking

Description

Dicumyl peroxide

50%, Paste in silicone oil

PEROXAN DC-Paste 50 SI/3 is used for the crosslinking of silicone rubber.



Molecular weight:

270.4

CAS No.:

80-43-3

Technical data

Appearance:

white paste

Peroxide assay:

appx. 50%

Active oxygen assay:

appx. 2.96%

Density at 20°C:

1.05 g/cm³

Half life time

in an EPDM compound:

t _{1/2}	10h	1h	0,1h
bei	112°C	138°C	162°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:

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 DC-Paste 50 SI/3 is recommended for the crosslinking of silicone rubber. Rubber compounds containing PEROXAN DC-Paste 50 SI/3 combine good processing safety with a fair speed of cure.

Safe processing temperature (t₂): 130°C

Typical crosslinking temperature (t₉₀): 170°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

2-Phenylpropanol-2, acetophenone, alpha-methylstyrene, Methane

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN DC-Paste 50 SI/3. 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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