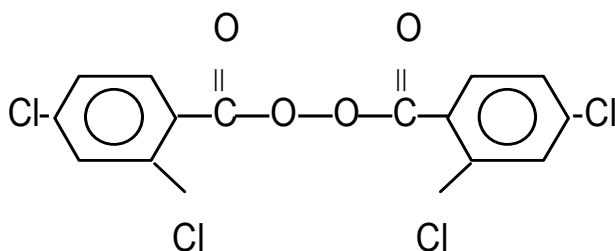


PEROXAN BD-Paste 50 SI

Crosslinking
Diacyl peroxides

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: 380,0
CAS No.: 133-14-2

Technical data: Appearance: white paste
Peroxide assay: ca. 50%
Active oxygen assay: ca. 2,10%

Density at 20°C: 1,18 g/cm³

Half life time: in a silicon rubber compound

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

Storage: Maximum storage temperature ($T_{s,max}$): 30°C
Minimum storage temperature ($T_{s,min}$): 5°C
Storage stability as from date of delivery: 6 months

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.

Thermal stability: SADT: 60°C
Emergency temperature (T_{em}): 55°C

The SADT is the lowest temperature at which a self accelerating decomposition may occur. The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken.

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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 (t_2): 75°C

Typical crosslinking temperature (t_{90}): 90°C

The safe processing temperature t_2 is defined as the temperature, at which the scorch time is longer than 20 minutes. The typical crosslinking temperature t_{90} is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.

Packaging: 20 kg Pail

Major decomposition products: Carbon dioxide, 1,3-Dichlorobenzene, 2,4-Dichlorobenzoic acid, 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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