

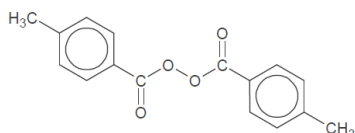
# PEROXAN PMB-Paste 50 SI

Diacyl peroxides / Crosslinking

## Description

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

PEROXAN PMB-Paste 50 SI is used for the chlorine-free crosslinking of silicone rubber.



Molecular weight: **270.3**  
CAS No.: **895-85-2**

## Technical data

Appearance: **white paste**  
Peroxide assay: **appx. 50%**  
Active oxygen assay: **appx. 2.96%**  
Density at 20°C: **1.15 g/cm<sup>3</sup>**

## Half life time

in an EPDM compound:

$t_{1/2}$	10h	1h	1min
bei	<b>70°C</b>	<b>89°C</b>	<b>130°C</b>

## Storage

Maximum storage temperature (Ts max): **25°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 PMB-Paste 50 SI is recommended for crosslinking of silicone rubber.

When crosslinked with PEROXAN PMBP-Paste 50 SI, the peroxide decomposes into chlorine-free decomposition products, means no polychlorinated biphenyls (PCB) are generated.

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

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

Dosing (silicone rubber): 1 to 2 phr

Safe processing temperature (t<sub>2</sub>): 80°C

Typical crosslinking temperature (t<sub>90</sub>): 110°C

The safe processing temperature t<sub>2</sub> is defined as the temperature, at which the scorch time is longer than 20 minutes.

The typical crosslinking temperature t<sub>90</sub> is defined as the temperature at which 90% of the crosslinks in the compound are formed within about 12 minutes.

## Packaging

**18kg pail**

## Major decomposition products

**4-Methylbenzoic acid, Carbon dioxide, Toluene**

## Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PMB-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](http://www.pergan.com) or through contacting Pergan directly.

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