

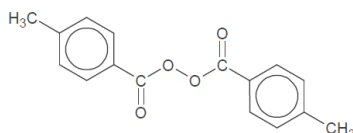
PEROXAN PMB-Paste 50 SI

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/cm³

Half life time

in an EPDM compound:

$t_{1/2}$	10h	1h	0,1h
bei	70°C	89°C	130°C

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 (t₂): 80°C

Typical crosslinking temperature (t₉₀): 110°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

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 or through contacting Pergan directly.

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