

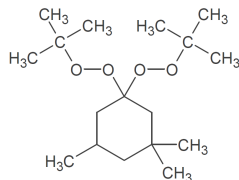
# PEROXAN PK295 MB

## Peroxyketale / Crosslinking

### Description

1,1-Di-(tert.-butylperoxy)-3,3,5-trimethylcyclohexane  
40%, Granules with EPM

PEROXAN PK295 MB is used for the crosslinking of natural rubber and synthetic rubber, as well as polyolefins.



Molecular weight:

**302.5**

CAS No.:

**6731-36-8**

### Technical data

Appearance:

**white granules**

Peroxide assay:

**appx. 40%**

Active oxygen assay:

**appx. 4.23%**

Bulk density at 20°C:

**621 kg/m<sup>3</sup>**

### Half life time

in an EPDM compound:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>91°C</b>	<b>117°C</b>	<b>138°C</b>

### Storage

Maximum storage temperature (Ts max):

**30°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:

**70°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 PK295 MB is recommended for the crosslinking of NBR, SBR, EP(D)M, LDPE and EVA. Rubber compounds containing PEROXAN PK295 MB have excellent scorch safety.

Safe processing temperature (t2): 115°C

Typical crosslinking temperature (t90): 145°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

**25kg cardboard box**

### Major decomposition products

**3,3,5-Trimethylcyclohexanone, 3,3,5-Trimethylhexanoic acid, Acetone, Methane, tert-Butanol**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN PK295 MB. 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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