

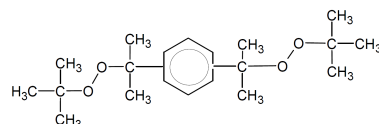
# PEROXAN BIB-40 PE-G

Dialkyl peroxide / Crosslinking

## Description

Di-(2-tert.-butyl-peroxyisopropyl)-benzene  
40%, Granules mit polyethylene

PEROXAN BIB-40 PE-G is used for the crosslinking of polyethylene.



Molecular weight:

**338.5**

CAS No.:

**25155-25-3**

## Technical data

Appearance:

**off-white granules**

Peroxide assay:

**appx. 40%**

Active oxygen assay:

**appx. 3.78%**

Bulk density at 20°C:

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

## Half life time

in an EPDM compound:

$t_{1/2}$	10h	1h	0,1h
bei	<b>117°C</b>	<b>146°C</b>	<b>169°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:

**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 BIB-40 PE-G is recommended for the crosslinking of polyethylene. Compounds containing PEROXAN BIB-40 PE-G have excellent scorch safety.

Safe processing temperature (t<sub>2</sub>): 135°C

Typical crosslinking temperature (t<sub>90</sub>): 175°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

**20kg cardboard box**

## Major decomposition products

**Acetone, Acetyl-2-hydroxyisopropylbenzene, Di(2-hydroxyisopropyl)benzene, Diacetylbenzene, 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 BIB-40 PE-G. 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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