

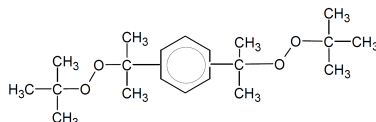
PEROXAN BIB-40 PE-G

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/m³

Half life time

in an EPDM compound:

t _{1/2}	10h	1h	1min
bei	117°C	146°C	169°C

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 (t2): 135°C

Typical crosslinking temperature (t90): 175°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

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 or through contacting Pergan directly.

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